

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: Jeffrey E. Russell Examiner #: 62785 Date: 8-14-2002
 Art Unit: 1653 Phone Number 308-3975 Serial Number: 09/805,016
 Mail Box and Bldg/Room Location: _____ Results Format Preferred (circle): PAPER DISK E-MAIL
CM-9801/CM-9807

If more than one search is submitted, please prioritize searches in order of need.

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

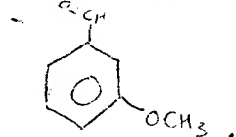
Title of Invention: Use of α -vanillin and α -vanillin/Trolox combinations

Inventors (please provide full names): E. Shalaby, R. Reddy, R. Kimball

Earliest Priority Filing Date: 3-12-2001

**For Sequence Searches Only* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.*

Please search the following partial structure:



Please use the following keywords to narrow down any hits:

- 1) radioprotect?, radiation
- 2) protein, insulin, interferon, collagen, keratin, immunoglobulin, somatostatin
- 3) isopropional, Trolox, ~~tetramethyl~~ tetramethylchromen?

Thank you.

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	Type of Search	Vendors and cost where applicable
Searcher: <u>Shalaby</u>	NA Sequence (#) _____	STN _____
Searcher Phone #: <u>308-1479</u>	AA Sequence (#) _____	Dialog _____
Searcher Location: _____	Structure (#) _____	Questel/Orbit _____
Date Searcher Picked Up: _____	Bibliographic _____	Dr. Link _____
Date Completed: <u>8/14/02</u>	Litigation _____	Lexis/Nexis _____
Searcher Prep & Review Time: _____	Fulltext _____	Sequence Systems _____
Clerical Prep Time: _____	Patent Family _____	WWW/Internet _____
Online Time: _____	Other _____	Other (specify) _____

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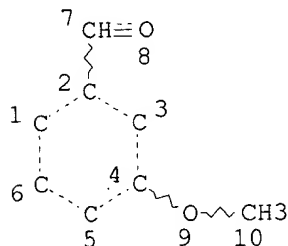
FILE COVERS 1907 - 16 Aug 2002 VOL 137 ISS 8
 FILE LAST UPDATED: 15 Aug 2002 (20020815/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

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 L1 STR



NODE ATTRIBUTES:
 DEFAULT MLEVEL IS ATOM
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
 RSPEC I
 NUMBER OF NODES IS 10

STEREO ATTRIBUTES: NONE

L2	4322	SEA FILE=REGISTRY	SSS FUL L1	
L3	9157	SEA FILE=REGISTRY	ABB=ON PLU=ON	INSULIN OR INTERFERON
L4	38890	SEA FILE=REGISTRY	ABB=ON PLU=ON	COLLAGEN OR KERATIN OR
				IMMUNOGLOBULIN OR SOMATOTROP?
L5	600	SEA FILE=REGISTRY	ABB=ON PLU=ON	ISOPROPANOL OR TROLOX OR
				TETRAMETHYLCHROMA?
L6	17384	SEA FILE=HCAPLUS	ABB=ON PLU=ON L2	
L8	22	SEA FILE=HCAPLUS	ABB=ON PLU=ON	L6(L) (RADIOPROTEC? OR
				RADIATION)
L9	510833	SEA FILE=HCAPLUS	ABB=ON PLU=ON	L3 OR L4 OR INSULIN OR

INTERFERON OR COLLAGEN OR KERATIN OR IMMUNOGLOBULIN OR
SOMATOTROP?

L10 64451 SEA FILE=HCAPLUS ABB=ON PLU=ON L5 OR ISOPROPANOL OR TROLOX
OR TETRAMETHYLCHROMA?
L11 20 SEA FILE=HCAPLUS ABB=ON PLU=ON L9(L)L6
L12 3 SEA FILE=HCAPLUS ABB=ON PLU=ON L10(L)L6
L13 44 SEA FILE=HCAPLUS ABB=ON PLU=ON L8 OR L11 OR L12

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L13 ANSWER 1 OF 44 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2002:11108 HCAPLUS

DOCUMENT NUMBER: 136:69654

TITLE: Preparation of diphenylethylene compounds as
antidiabetic agents

INVENTOR(S): Nag, Bishwagit; Dey, Debendranath; Medicherla,
Satyanarayana; Neogi, Partha

PATENT ASSIGNEE(S): USA

SOURCE: U.S. Pat. Appl. Publ., 38 pp., Cont.-in-part of U.S.
Ser. No. 642,618.

CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

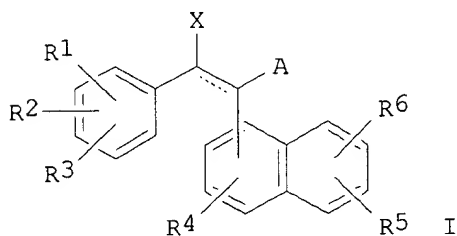
FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2002002200	A1	20020103	US 2001-777551	20010205
PRIORITY APPLN. INFO.:			US 2000-180340P P	20000204
			US 2000-642618 A2	20000817

OTHER SOURCE(S): MARPAT 136:69654

GI



AB Title compds. I [wherein A = CO₂R, CONR'R", CN, or COR₇; X = H, OH, or (un)substituted alkyl or alkenyl; R = H, (ar)alkyl, or aryl; R₁, R₂, R₃, R₄, R₅, R₆, and R₇ = independently H, (un)substituted alkyl or alkenyl; CO₂R, NR'R", or CONCR'R"; R' and R" = independently H, alkyl, aryl, OH, alkoxy, acylamino, acyloxy, alkanoyl, alkoxycarbonyl, halo, NO₂, SO₂R'''; C₂3; Z = independently H, halo, (halo)alkyl, or SR'''; R''' = H or alkyl; or R₂ and R₃ together or R₅ and R₆ together may be joined to form (m)ethylenedioxy; with provisos; and E and Z isomers thereof] were prepd. and shown to decrease circulating concns. of glucose when administered orally. For instance, 3,5-dimethoxybenzaldehyde was coupled with p-hydroxyphenyl acetic acid using TEA in acetic anhydride to give (E)-3-(3,5-dimethoxyphenyl)-2-(4-hydroxyphenyl)acrylic acid (II), which

exhibited glucose-lowering effects for more than 15 days at a dose of 20 mg/kg p.o. Examples also include twenty-six bioassays, such as studies on the effects of II on insulin resistant rats, lipid and leptin concns., PPAR binding, overexpression of the human insulin-like growth factor 1 receptor and human insulin receptor, toxicity, and kinetics of drug absorption. I are orally effective antidiabetic agents that normalize glucose and lipid metab.

IT 120-14-9, 3,4-Dimethoxybenzaldehyde 7311-34-4,
3,5-Dimethoxybenzaldehyde

RL: RCT (Reactant); RACT (Reactant or reagent)

(prepn. and testing of diphenylethylene antidiabetic agents that normalize glucose and lipid metab. in relation to **insulin** resistance)

L13 ANSWER 2 OF 44 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2001:853573 HCAPLUS

DOCUMENT NUMBER: 136:251727

TITLE: Abatement of the major contaminants present in olive oil industry wastewaters by different oxidation methods: Ozone and/or UV radiation versus solar light

AUTHOR(S): Miranda, M. A.; Amat, A. M.; Arques, A.

CORPORATE SOURCE: Departamento de Quimica e Instituto de Tecnologia Quimica UPV-CSIC, Universidad Politecnica de 22012, Valencia, E-46071, Spain

SOURCE: Water Science and Technology (2001), 44(5, Oxidation Technologies for Water and Wastewater Treatment II), 325-330

CODEN: WSTED4; ISSN: 0273-1223

PUBLISHER: IWA Publishing

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Cinnamic acids (caffeic acid, ferulic acid, p-coumaric acid and cinnamic acid) in olive oil wastewaters were treated with advanced oxidn. methods: ozone and/or UV radiation. Basic and acid media were tested. Differences between all 4 acids were found, both in the reaction times and the intermediates formed. Based on a careful study of these intermediates and the variation of their concns. all along the reaction time, a formation mechanism for the degradative oxidn. of cinnamic acids is proposed. These results are compared with those obtained with solar light, using a pyrylium salt as a catalyst.

IT 121-33-5, Vanillin

RL: FMU (Formation, unclassified); FORM (Formation, nonpreparative)
(abatement of major contaminants present in olive oil industry wastewaters by ozone and UV **radiation** vs. solar light)

REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 3 OF 44 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2001:709690 HCAPLUS

DOCUMENT NUMBER: 135:236395

TITLE: Use of o-vanillin and o-vanillin/Trolox combinations for radioprotection of solid-state proteins, preferably protein drugs, and pharmaceutical formulations

INVENTOR(S): Shalaev, Evgenyi Yur'evich; Reddy, Renuka Devi; Kimball, Roger Nelson

PATENT ASSIGNEE(S): Pfizer Products Inc., USA

SOURCE: Eur. Pat. Appl., 7 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1136080	A2	20010926	EP 2001-302066	20010307
EP 1136080	A3	20020605		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 2001316294	A2	20011113	JP 2001-62892	20010307
US 2001049354	A1	20011206	US 2001-805016	20010312
BR 2001000954	A	20011218	BR 2001-954	20010313
PRIORITY APPLN. INFO.:			US 2000-189101P	P 20000314

AB The invention provides methods of protecting solid-state proteins, e.g. drugs, from the effects of ionizing radiation which comprise combining the protein with a radiation-protecting amt. of a methoxysalicylaldehyde deriv., preferably 3-methoxysalicylaldehyde; radiation-protecting amts. of a methoxysalicylaldehyde deriv., preferably 3-methoxysalicylaldehyde, and 6-hydroxy-2,5,7,8-tetramethylchroman-2-carboxylic acid; or radiation-protecting amts. of a methoxysalicylaldehyde deriv., preferably 3-methoxysalicylaldehyde, and isopropanol, prior to exposing the protein to ionizing radiation. The invention further provides radiation-resistant pharmaceutical formulations comprising a protein and a methoxysalicylaldehyde deriv., preferably 3-methoxysalicylaldehyde; a protein and a combination of a methoxysalicylaldehyde deriv., preferably 3-methoxysalicylaldehyde, and 6-hydroxy-2,5,7,8-tetramethylchroman-2-carboxylic acid; or a protein and a combination of a methoxysalicylaldehyde deriv., preferably 3-methoxysalicylaldehyde, and isopropanol. The invention still further provides a compn. comprising a combination of a methoxysalicylaldehyde deriv., preferably 3-methoxysalicylaldehyde, and 6-hydroxy-2,5,7,8-tetramethylchroman-2-carboxylic acid, and for the use of such compn. in pharmaceutical formulations as a radioprotectant.

IT **148-53-8, o-Vanillin**
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (o-vanillin and o-vanillin/**Trolox** combinations for **radioprotection** of solid-state proteins, preferably protein drugs, and pharmaceutical formulations)

L13 ANSWER 4 OF 44 HCAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 2001:651941 HCAPLUS
 DOCUMENT NUMBER: 136:12688
 TITLE: EPR study on .gamma.-irradiated single crystals of a nonlinear optical material: 3-methoxy-4-hydroxy benzaldehyde
 AUTHOR(S): Manikandan, S.; Jayavel, R.; Dhanuskodi, S.
 CORPORATE SOURCE: V.D. Polytechnic, Nagapattinam, 611001, India
 SOURCE: Materials Chemistry and Physics (2001), 72(1), 1-4
 CODEN: MCHPDR; ISSN: 0254-0584
 PUBLISHER: Elsevier Science S.A.
 DOCUMENT TYPE: Journal
 LANGUAGE: English

AB Single crystals of nonlinear optical (NLO) material 3-methoxy-4-hydroxy benzaldehyde (MHBA) were grown following slow evapn. method. The grown crystals were characterized by the measurement of unit cell dimensions single crystal x-ray diffraction, d., m.p. and x-ray powder diffraction pattern. Hardness study for the grown crystals was carried out. The grown crystals were .gamma.-irradiated to produce free radicals and were analyzed by ESR (EPR) technique.

IT **121-33-5, 3-Methoxy-4-hydroxy benzaldehyde**
 RL: CPS (Chemical process); PEP (Physical, engineering or chemical process); PRP (Properties); PYP (Physical process); PROC (Process)
 (growth and characterization and **radiation** damage of methoxyhydroxybenzaldehyde nonlinear optical materials)

REFERENCE COUNT: 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 5 OF 44 HCAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 2001:581654 HCAPLUS
 DOCUMENT NUMBER: 135:147444
 TITLE: Novel diphenylethylene compounds
 INVENTOR(S): Nag, Bishwajit; Dey, Debendranath; Medicherla, Satyanarayana
 PATENT ASSIGNEE(S): Calyx Therapeutics, Inc., USA
 SOURCE: PCT Int. Appl., 55 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

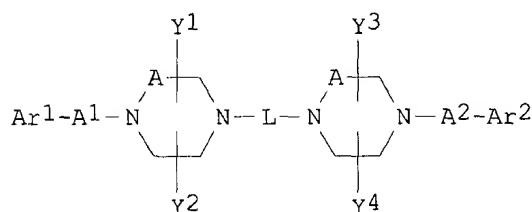
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001056382	A1	20010809	WO 2001-US3797	20010205
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
PRIORITY APPLN. INFO.:			US 2000-180340P	P 20000204
			US 2000-642618	A 20000817
OTHER SOURCE(S): MARPAT 135:147444				
AB Novel diphenylethylene compds. that are administered orally to decrease circulating concns. of glucose are provided. The effect on insulin resistant rats is also shown. The effects on lipid and leptin concns. are also shown. The compds. are orally effective anti-diabetic agents that may normalize glucose and lipid metab. in subjects with diabetes.				
IT 120-14-9, 3,4-Dimethoxybenzaldehyde 7311-34-4, 3,5-Dimethoxybenzaldehyde RL: RCT (Reactant); RACT (Reactant or reagent) (novel diphenylethylene compds. that are anti-diabetic agents that normalize glucose and lipid metab. in relation to insulin resistance)				
REFERENCE COUNT:		7	THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT	

L13 ANSWER 6 OF 44 HCAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 2001:380556 HCAPLUS
 DOCUMENT NUMBER: 135:5625
 TITLE: Diabetic remedy containing dipiperazine derivative
 INVENTOR(S): Yamaguchi, Hiroshi; Maruta, Katsunori; Nagata, Ryu; Ushiroda, Kantaro; Iwai, Kiyotaka
 PATENT ASSIGNEE(S): Sumitomo Pharmaceuticals Co., Ltd., Japan
 SOURCE: PCT Int. Appl., 176 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001036386	A1	20010525	WO 2000-JP8065	20001115
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,				

CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR,
 HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT,
 LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU,
 SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN,
 YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
 DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
 BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: JP 1999-326751 A 19991117
 OTHER SOURCE(S): MARPAT 135:5625
 GI



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AB A remedy for diabetes contains a dipiperazine deriv. represented by formula (I) or a pharmacol. acceptable salt thereof. [wherein Ar1 and Ar2 each represents optionally substituted Ph, naphthyl, or heterocyclyl; A1 and A2 each represents optionally substituted alkylene or carbonyl (provided that not both of A1 and A2 are carbonyl); A represents methylene or ethylene; Y1, Y2, Y3, and Y4 each represents hydrogen or alkyl; L represents -L3-X1-L1-X2-L2-X3-L4-; L3 and L4 each represents carbonyl or sulfonyl; X1 and X3 each represents a single bond, NR1, or O; R1 represents hydrogen or alkyl; X2 represents a single bond, optionally substituted alkylene, heteroarylene, phenylene, or cycloalkylidene, cycloalkylene, divalent aliph. heterocyclic group, vinylene, ethynylene, S, O, NR2CO, NR3CONR4, NR2CO2, OCO2, O2C, CO, or N(COR5); etc.; R2, R3, R4, and R5 each represents hydrogen or alkyl; and L1 and L2 each represents a single bond, optionally substituted alkylene, vinylene, or phenylene; provided that when X2 is single bond, vinylene, ethynylene, S, O, NR2CO, NR3CONR4, NR2CO2, OCO2, O2C, CO, or N(COR5), L1 or L2 is not a single bond; or when L1 or L2 is vinylene, X1 and X3 are a single bond]. These compds. lower blood sugar level and improve insulin resistance. Thus, 110 mg N-[4-(1-piperazinylcarbonyl)phenyl]-1-piperazinecarboxamide (prepn. given) was dissolved in 6 mL DMF, treated with 195 mg K2CO3 and 270 mg 4-(trifluoromethyl)benzyl bromide, and stirred at 50.degree. for 5 h to give 4-[4-(trifluoromethyl)benzyl]-N-[4-[[4-(4-(trifluoromethyl)benzyl)-1-piperazinyl]carbonyl]phenyl]-1-piperazinecarboxamide (II). II was administered to mice at 3 mg/kg p.o., immediately followed by insulin 3 U/kg s.c. After 4 h, the blood sugar level lowered from 261.+-.92 (control) to 129.+-.43 mg/dL.

IT 120-14-9, 3,4-Dimethoxybenzaldehyde

RL: RCT (Reactant); RACT (Reactant or reagent)

(prepn. of dipiperazine derivs. as hypoglycemics and antidiabetics for improving **insulin** resistance)

REFERENCE COUNT: 23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 7 OF 44 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2001:355085 HCAPLUS

DOCUMENT NUMBER: 134:353250

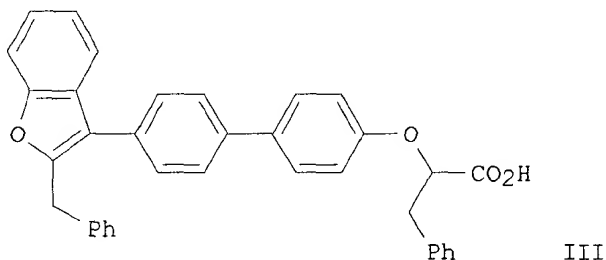
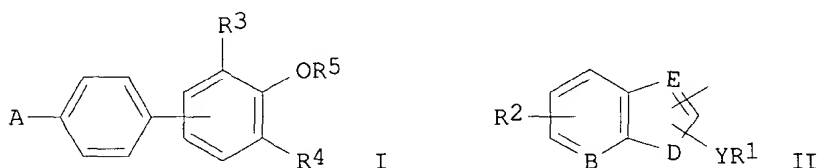
TITLE: Preparation of .alpha.-(biphenylyloxo)alkanoic acids

INVENTOR(S): for treatment of insulin resistance and hyperglycemia
 Malamas, Michael S.; Mcdevitt, Robert E.; Adebayo, Folake O.
 PATENT ASSIGNEE(S): American Home Products Corporation, USA
 SOURCE: U.S., 30 pp.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6232322	B1	20010515	US 1999-307972	19990510
US 2001041715	A1	20011115	US 2001-798109	20010302
US 6391897	B2	20020521		
US 2001053785	A1	20011220	US 2001-798088	20010302
US 6369072	B2	20020409		

PRIORITY APPLN. INFO.:
 US 1998-113654P P 19980512
 US 1998-76205 A 19980512
 US 1999-307972 A3 19990510

OTHER SOURCE(S): MARPAT 134:353250
 GI



AB The title compds. [I; A = II (wherein B = C; D = O, S, N; E = C; Y = a bond, CH2; CO, CHO; R1 = alkyl, aryl, arylakyl, etc.; R2 = H, alkyl, alkoxy, etc.); R3, R4 = H, halo, alkyl, etc.; R5 = H, alkyl, etc.] were prepd. as protein-tyrosine phosphatase inhibitors. Thus, 4-BrC6H4COCH2Br was etherified by PhOH and the cyclized product condensed with 4-(MeO)C6H4B(OH)2 to give, after O-demethylation, 3-(4'-hydroxybiphenyl)benzofuran which was acylated by BzNMeOMe and the reduced product etherified by (R)-PhCH2CH(OH)CO2Me to give, after sapon., title compd (S)-III. Data for biol. activity of I were given.

IT 120-14-9, 3,4-Dimethoxybenzaldehyde

RL: RCT (Reactant); RACT (Reactant or reagent)

(prepn. of .alpha.-(biphenyloxy)alkanoic acids for treatment of insulin resistance and hyperglycemia)

REFERENCE COUNT: 98 THERE ARE 98 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 8 OF 44 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2001:298858 HCAPLUS
DOCUMENT NUMBER: 134:315873
TITLE: Aromatic aldehydes and ketones with imidazoles as coloring agents for keratin fibers
INVENTOR(S): Moeller, Hinrich; Oberkobusch, Doris; Hoeffkes, Horst
PATENT ASSIGNEE(S): Henkel K.-G.a.A., Germany
SOURCE: Ger. Offen., 14 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19951134	A1	20010426	DE 1999-19951134	19991023
WO 2001034106	A1	20010517	WO 2000-EP10125	20001014
W: AU, BR, CA, CN, CZ, HU, JP, NO, PL, RU, SK, US, VN				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				

PRIORITY APPLN. INFO.: DE 1999-19951134 A 19991023

OTHER SOURCE(S): MARPAT 134:315873

AB Oxidative hair dyes contg. arom. aldehydes and ketones combined with imidazoles and other heterocyclic compds. are disclosed. Arom. components may include salicylaldehyde, 3-hydroxybenzaldehyde, 4-hydroxybenzaldehyde, o-anisaldehyde, etc. Heterocyclic components may include 1,4-dimethylquinolinium salts, 1,2-dimethylquinolinium salts, 1,4-dimethylpyridinium salts, 3-ethyl-2-methylbenzothiazolium salts, etc. These may be combined with rhodanine, barbituric acid, thiobarbituric acid, oxindole, etc.

IT 93-02-7, 2,5-Dimethoxybenzaldehyde 120-14-9,
3,4-Dimethoxybenzaldehyde 121-33-5, Vanillin 3934-87-0
, 3,4-Dihydroxy-5-methoxybenzaldehyde

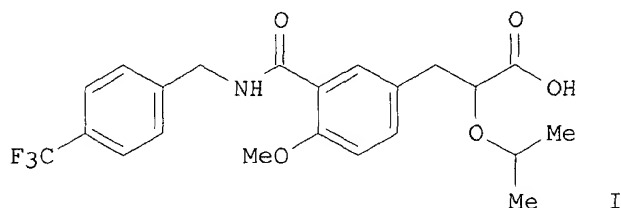
RL: BUU (Biological use, unclassified); PEP (Physical, engineering or chemical process); BIOL (Biological study); PROC (Process); USES (Uses) (arom. aldehydes and ketones with imidazoles as coloring agents for **keratin** fibers)

L13 ANSWER 9 OF 44 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2001:265369 HCAPLUS
DOCUMENT NUMBER: 134:295620
TITLE: Preparation and effect of 4-methoxyphenylpropionic acid derivatives useful in insulin resistance improvement
INVENTOR(S): Shinoda, Masanobu; Emori, Eita; Matsuura, Fumiyoshi; Kaneko, Toshihiko; Ohi, Norihito; Kasai, Shunji; Yoshitomi, Hideki; Yamazaki, Kazuto; Miyashita, Sadakazu; Hibara, Taro; Seiki, Hisashi; Clark, Richard; Harada, Hitoshi
PATENT ASSIGNEE(S): Eisai Co., Ltd., Japan
SOURCE: PCT Int. Appl., 350 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001025181	A1	20010412	WO 2000-JP6788	20000929
W: AU, BR, CA, CN, HU, IL, JP, KR, MX, NO, NZ, RU, US, ZA				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,				

PT, SE
 AU 2000074499 A5 20010510 AU 2000-74499 20000929
 EP 1216980 A1 20020626 EP 2000-962993 20000929
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, FI, CY
 PRIORITY APPLN. INFO.: JP 1999-282079 A 19991001
 JP 1999-369442 A 19991227
 JP 2000-38795 A 20000216
 JP 2000-104260 A 20000406
 JP 2000-2000038795A 20000216
 JP 2000-2000104260A 20000406
 WO 2000-JP6788 W 20000929
 OTHER SOURCE(S): MARPAT 134:295620
 GI



AB Title compds. [Y:L:X:TZM:CWR1; R1 is hydrogen, hydroxyl, alkyl; L is single bond, double bond, alkylene; M is single bond, alkylene; T is single bond, alkylene; W is carboxyl, amide; X is oxygen, alkenylene; Y is arom. hydrocarbon; Z is arom. hydrocarbon; colon represents single, or double bond], salts, esters, and hydrates are prepd. and are useful in prevention or treatment of diabetes and X-syndrome. Thus, the title compd. I was prepd. and biol. tested.

IT **71295-21-1**, Benzaldehyde, 5-Bromo-2,3-dimethoxy-
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (prepn. and effect of methoxyphenylpropionic acid derivs. useful in **insulin** resistance improvement as PPAR agonists)

IT **334016-42-1P**
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (prepn. and effect of methoxyphenylpropionic acid derivs. useful in **insulin** resistance improvement as PPAR agonists)

REFERENCE COUNT: 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 10 OF 44 HCAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 2001:262725 HCAPLUS
 DOCUMENT NUMBER: 135:2250
 TITLE: Negligible influence of elevated UV-B radiation on leaf litter quality of Quercus robur
 AUTHOR(S): Newsham, K. K.; Splatt, P.; Coward, P. A.; Greenslade, P. D.; McLeod, A. R.; Anderson, J. M.
 CORPORATE SOURCE: Centre for Ecology and Hydrology, Huntingdon, PE14 2LS, UK
 SOURCE: Soil Biology & Biochemistry (2001), 33(4-5), 659-665
 CODEN: SBIOAH; ISSN: 0038-0717
 PUBLISHER: Elsevier Science Ltd.
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB The authors tested whether elevated UV-B radiation applied to Quercus robur, a principal climax species of northern Europe, would influence concns. of polyphenolics (Folin-Denis tannins and lignin), phenylpropanoid

moieties of lignin, carbohydrates (monosaccharides and holocellulose), or nutrient elements (K, Ca, Mg, P and N) in recently-abscised leaf litter. Saplings of *Q. robur* were exposed for 2 yr at an outdoor facility in the UK to a 30% elevation above the ambient amt. of erythemally-weighted UV-B (280-315 nm) radiation under arrays of fluorescent lamps with cellulose diacetate filters, which transmitted both UV-B and UV-A (315-400 nm) radiation. Saplings were also exposed to elevated UV-A alone under arrays of lamps with polyester filters and to ambient radiation under nonenergized arrays of lamps. Little evidence was found that elevated UV-B radiation influenced leaf litter quality. Data pooled for both years indicated an 8% increase in vanillic acid concn. in litter from polyester-filtered lamp arrays, relative to nonenergized arrays, and 8% and 6% increases, resp., in concns. of acetovanillone in litter from polyester- and cellulose diacetate-filtered lamp arrays, relative to nonenergized lamp arrays. Arabinose concn. in litter from cellulose diacetate-filtered lamp arrays was 3% higher than in litter from polyester-filtered arrays, and glucose concn. in litter from cellulose-diacetate filtered lamp arrays was increased by 6%, relative to nonenergized arrays. There were no main effects of elevated UV on the concns. of holocellulose, polyphenolics or nutrient elements. Thus, exposure to elevated UV-B does not substantially influence the initial chem. compn. of *Q. robur* leaf litter, and any increases in UV-B radiation arising from ozone depletion over northern mid-latitudes will be unlikely to affect nutrient cycling and decompn. in *Quercus* woodlands through effects on litter quality alone.

IT 121-33-5, Vanillin 134-96-3, Syringaldehyde

RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)

(negligible influence of elevated UV-B radiation on leaf litter quality of *Quercus robur*)

REFERENCE COUNT: 32 THERE ARE 32 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 11 OF 44 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2000:607330 HCAPLUS

DOCUMENT NUMBER: 133:193067

TITLE: Preparation of 11-aryl-benzo[b]naphtho[2,3-d]furans and 11-aryl-benzo[b]naphtho[2,3-d]thiophenes for treating insulin resistance and hyperglycemia

INVENTOR(S): Wrobel, Jay E.; Dietrich, Arlene J.; Li, Zenan

PATENT ASSIGNEE(S): American Home Products Corporation, USA

SOURCE: U.S., 67 pp.

CODEN: USXXAM

DOCUMENT TYPE: Patent

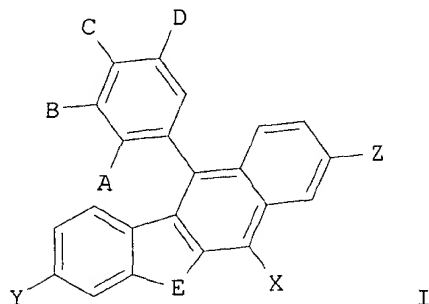
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6110962	A	20000829	US 1999-307840	19990510
PRIORITY APPLN. INFO.:			US 1998-98554P	P 19980512
OTHER SOURCE(S):		MARPAT 133:193067		

GI



AB The title compds. [I; A = H, halo, OH; B, D = H, halo, CN, etc.; E = S, SO, SO₂, O; X = H, halo, alkyl, etc.; Y, Z = H, OR₂; R₂ = H, alkyl, aralkyl, CH₂CO₂R₃; R₃ = H, alkyl; C = H, halo, OR₄; R₄ = H, alkyl, CH(R₅)W, etc.; R₅ = H, alkyl, aralkyl, etc.; W = CONH₂, CONHOH, CN, etc.; with the proviso that at least one of A-D is not H atom] and their pharmaceutically acceptable salts, which are useful in treating insulin resistance and hyperglycemia, were prepd. E.g., a multi-step synthesis of I [A, B, D = H; C = OH; E = S; X, Y, Z = H] which showed -34.19% change from control in test for PTPase inhibition at 50 .mu.M, was given.

IT 591-31-1

RL: RCT (Reactant); RACT (Reactant or reagent)
(prepn. of 11-aryl-benzo[b]naphtho[2,3-d]furans and
11-aryl-benzo[b]naphtho[2,3-d]thiophenes for treating **insulin**
resistance and hyperglycemia)

REFERENCE COUNT: 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 12 OF 44 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2000:442128 HCAPLUS

DOCUMENT NUMBER: 133:79004

TITLE: Agents for coloring keratin fibers

INVENTOR(S): Moeller, Hinrich; Oberkobusch, Doris; Hoeffkes, Horst

PATENT ASSIGNEE(S): Henkel K.-G.a.A., Germany

SOURCE: Ger. Offen., 17 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19859810	A1	20000629	DE 1998-19859810	19981223
WO 2000038634	A1	20000706	WO 1999-EP9910	19991214

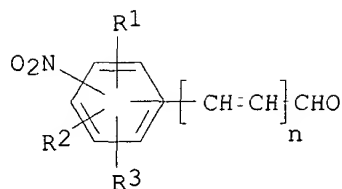
W: AU, JP, US

RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,
PT, SE

PRIORITY APPLN. INFO.: DE 1998-19859810 A 19981223

OTHER SOURCE(S): MARPAT 133:79004

GI



AB Keratin fibers, esp. human hair, can be dyed with arom. nitro aldehydes [I; R1-R3 = H, halo, alkyl, hydroxyalkyl, aminoalkyl, alkoxy, acyl, OH, NO2, CO2H, acylamino, sulfo, (substituted) amino, or any 2 of R1-R3 may complete a condensed arom. ring; n = 0-2] in the presence of absence of oxidizing agents. These dyes provide outstanding brilliance and depth of color primarily in the yellow and orange range; the color range can be extended by addnl. use of primary or secondary aliph. or arom. amines or alcs., N-heterocycles, amino acids, oligopeptides, arom. OH compds., and/or active CH compds. Thus, a soln. contg. 4-nitrobenzaldehyde 5, 3-amino-2-methylamino-6-methoxypyridine-2HCl 5, NaOAc 5 mmol, and 1 drop 20% fatty alkyl ether sulfate in 50 mL H2O (pH 6) was applied to gray hair for 30 min at 30.degree. to produce an intense violet-brown color.

IT **6635-20-7**, 5-Nitrovanillin **17028-61-4**,
 2-Hydroxy-3-methoxy-5-nitrobenzaldehyde **20357-25-9**,
 4,5-Dimethoxy-2-nitrobenzaldehyde **53055-05-3**,
 3-Methoxy-2-nitrobenzaldehyde
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
 (Uses)
 (agents for coloring keratin fibers)

L13 ANSWER 13 OF 44 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2000:364958 HCAPLUS

DOCUMENT NUMBER: 133:99524

TITLE: Vanillin (3-methoxy-4-hydroxybenzaldehyde) inhibits mutation induced by hydrogen peroxide, N-methyl-N-nitrosoguanidine and mitomycin C but not 137Cs .gamma.-radiation at the CD59 locus in human-hamster hybrid AL cells

AUTHOR(S): Gustafson, Daniel L.; Franz, Holly R.; Ueno, Akiko M.; Smith, Carr J.; Doolittle, David J.; Waldren, Charles A.

CORPORATE SOURCE: Department of Radiological Health Sciences, Colorado State University, Fort Collins, CO, 80523, USA

SOURCE: Mutagenesis (2000), 15(3), 207-213

CODEN: MUTAEX; ISSN: 0267-8357

PUBLISHER: Oxford University Press

DOCUMENT TYPE: Journal

LANGUAGE: English

AB The authors have investigated the ability of the naturally occurring plant essence vanillin (3-methoxy-4-hydroxybenzaldehyde) to inhibit mutation at the CD59 locus on human chromosome 11 by hydrogen peroxide, N-methyl-N-nitrosoguanidine, mitomycin C and 137Cs .gamma.-radiation in human-hamster hybrid AL cells. Previous studies using vanillin have suggested that it can inhibit chromosome aberrations induced by hydrogen peroxide and mitomycin C, as well as inhibiting x-ray- and UV-induced mutations at the hprt locus. Other studies with vanillin have shown that it can increase both the toxicity and mutagenicity of Et methane sulfonate and increase the induction of sister chromatid exchange by mitomycin C and a variety of other mutagens. The increased sensitivity of the AL assay, which is due in part to its ability to detect both small (single locus) and large (multilocus) genetic damage, allows the authors to measure the effect of vanillin at low doses of mutagen. Vanillin is shown, in these

studies, to inhibit mutation induced by hydrogen peroxide, N-methyl-N-nitrosoguanidine and mitomycin C, as well as to enhance the toxicity of these agents. Vanillin had no effect on either toxicity or mutation induced by 137Cs .gamma.-radiation. The vanillin-induced potentiation of H2O2 toxicity is shown not to involve inhibition of catalase or glutathione peroxidase. These results show that vanillin is able to inhibit mutation at the CD59 locus and modify toxicity in a mutagen-specific manner. Possible mechanisms to explain the action of vanillin include inhibition of a DNA repair process that leads to the death of potential mutants or enhancement of DNA repair pathways that protect from mutation but create lethal DNA lesions during the repair process.

IT 121-33-5, Vanillin

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(vanillin (3-methoxyhydroxybenzaldehyde) inhibits mutation induced by hydrogen peroxide and methylnitrosoguanidine and mitomycin C but not 137Cs .gamma.-radiation at CD59 locus in human-hamster hybrid AL cells)

REFERENCE COUNT: 50 THERE ARE 50 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 14 OF 44 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2000:233974 HCAPLUS

DOCUMENT NUMBER: 132:260679

TITLE: Diarylquinonemethides, interferon .gamma. inhibitors, and pharmaceuticals

INVENTOR(S): Takahashi, Kazunobu; Kawakami, Masayuki; Kageyama, Shigeki

PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 9 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

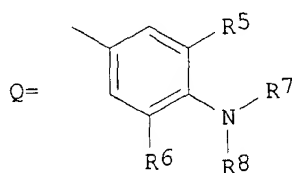
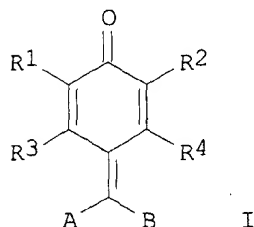
LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000103769	A2	20000411	JP 1998-273981	19980928

OTHER SOURCE(S): MARPAT 132:260679
GI



AB Pharmaceuticals for prevention and treatment of autoimmune diseases contain title compds. I [R1-R4 = H, halo, (substituted) C1-6 alkyl, (substituted) C1-6 alkoxy; A, B = Q; R5, R6 = H, halo, (substituted) C1-6 alkyl, alkoxy, alkylamino, alkylthio; R7, R8 = H, (substituted) C1-8 alkyl; R5R7, R6R8, R7R8 may form ring] or their salts.
.alpha.-(4-Dimethylaminophenyl)-4-tert-butyldimethylsiloxy-3,5-

dimethoxybenzyl alc. (prepn. given) was treated with N-ethylbenzoxazine in the presence of Bu₄N⁺ and H₂SO₄ in i-PrOH/THF under reflux for 5 h to give 67% condensate, which was oxidized by chloranil in AcOEt at room temp. for 5 h to give 46% I (R₁ = R₂ = OMe, R₃ = R₄ = H, A = C₆H₄NMe₂-p, B = N-ethyl-1,4-benzoxazin-7-yl) (II). II in vitro inhibited interferon .gamma. formation with IC₅₀ of 2.2 .mu.g/mL.

IT 106852-80-6

RL: RCT (Reactant); RACT (Reactant or reagent)
(prepn. of diarylquinonemethides as **interferon** .gamma. inhibitors)

L13 ANSWER 15 OF 44 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2000:215987 HCAPLUS

DOCUMENT NUMBER: 132:246357

TITLE: Quinonemethides, interferon .gamma. inhibitors, and pharmaceuticals

INVENTOR(S): Sugai, Shoji; Nishikawa, Naoyuki; Aoki, Kozo; Kageyama, Shigeki

PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 11 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

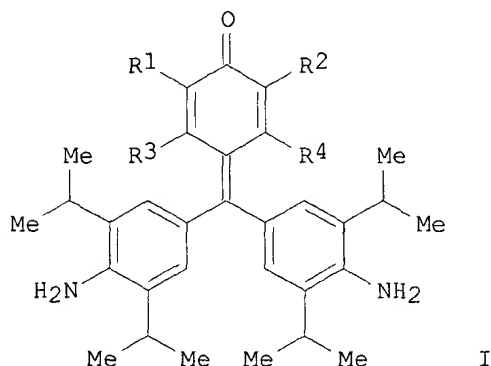
LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000095737	A2	20000404	JP 1998-271529	19980925

OTHER SOURCE(S): MARPAT 132:246357
GI



AB Pharmaceuticals, useful for prevention and treatment of autoimmune diseases, contain quinonemethides I [R₁-R₄ = H, halo, NH₂, acyl, acylamino, OH, (substituted) lower alkyl, (substituted) lower alkoxy] or their salts. 3,5-Dichloro-4-hydroxybenzaldehyde (95.5 g) was condensed with 177 g 2,6-diisopropylaniline in the presence of urea and H₂SO₄ in i-PrOH under reflux for 8 h, oxidized by chloranil in AcOEt under reflux for 2 h, and heated in MeOH to give 113 g I (R₁ = R₂ = Cl, R₃ = R₄ = H), which in vitro inhibited human interferon .gamma. formation with IC₅₀ of 2.7 .mu.g/mL.

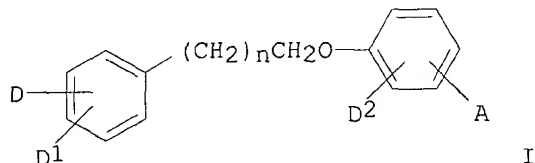
IT 121-33-5P, 4-Hydroxy-3-methoxybenzaldehyde 134-96-3P,
3,5-Dimethoxy-4-hydroxybenzaldehyde 2973-76-4P, 5-Bromovanillin

5438-36-8P, 5-Iodovanillin 19463-48-0P, 5-Chlorovanillin
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of quinonemethides as **interferon** .gamma. inhibitors)

L13 ANSWER 16 OF 44 HCAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1999:784068 HCAPLUS
 DOCUMENT NUMBER: 132:22756
 TITLE: Preparation of new 3-arylpropionic acid derivatives
 and analogs and the use of the compounds in conditions
 associated with insulin resistance
 INVENTOR(S): Andersson, Kjell; Boije, Maria; Gottfries, Johan;
 Inghardt, Tord; Li, Lanna; Lindstedt, Alstermark
 Eva-lotte
 PATENT ASSIGNEE(S): Astra Aktiebolag, Swed.; Lindstedt Alstermark,
 Eva-Lotte
 SOURCE: PCT Int. Appl., 177 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 3
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9962871	A1	19991209	WO 1999-SE942	19990531
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
AU 9946672	A1	19991220	AU 1999-46672	19990531
BR 9910921	A	20010306	BR 1999-10921	19990531
EP 1084102	A1	20010321	EP 1999-930060	19990531
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 2002516899	T2	20020611	JP 2000-552084	19990531
NO 2000006116	A	20010202	NO 2000-6116	20001201
PRIORITY APPLN. INFO.:				
			SE 1998-1990	A 19980604
			SE 1998-1991	A 19980604
			SE 1998-1992	A 19980604
			WO 1999-SE942	W 19990531

OTHER SOURCE(S): MARPAT 132:22756
 GI



AB Prepn. of 3-arylpropionic acid derivs. and analogs I [A = CR3R4CR1R2COR,
 CR3:CR1COR; D = OSO2Rd, NRcRd, CN, etc.; D1 = H, alkyl, aryl, etc.; D2 =
 H, acyl, NO2, etc.; n = 1-3] and their use as treatment for insulin
 resistance are described. E.g., 2-ethoxy-3-[4-(2-{4-
 methanesulfonyloxyphenyl}ethoxy)phenyl]propanoic acid was prepd.

IT 2426-87-1, 4-Benzyloxy-3-methoxybenzaldehyde
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (prepn. of arylpropionic acids for treatment of insulin
 resistance)

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 17 OF 44 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1999:736689 HCAPLUS

DOCUMENT NUMBER: 131:351227

TITLE: Preparation of 11-aryl-benzo[b]naphtho[2,3-d]furans
 and 11-aryl-benzo[b]naphtho[2,3-d]thiophenes useful in
 the treatment of insulin resistance and hyperglycemia

INVENTOR(S): Wrobel, Jay Edward; Dietrich, Arlene Joan; Li, Zenan

PATENT ASSIGNEE(S): American Home Products Corp., USA

SOURCE: PCT Int. Appl., 209 pp.

CODEN: PIXXD2

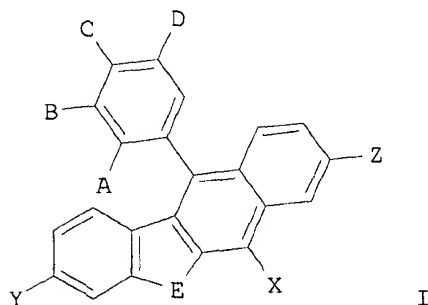
DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9958521	A1	19991118	WO 1999-US10185	19990510
W:	AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
CA 2330623	AA	19991118	CA 1999-2330623	19990510
AU 9939791	A1	19991129	AU 1999-39791	19990510
EP 1077970	A1	20010228	EP 1999-922897	19990510
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, SI, LT, LV, FI, RO			
JP 2002514638	T2	20020521	JP 2000-548325	19990510
PRIORITY APPLN. INFO.:			US 1998-76592	A 19980512
			WO 1999-US10185	W 19990510
OTHER SOURCE(S):	MARPAT 131:351227			
GI				



AB The title compds. [I; A = H, halo, OH; B, D = H, halo, CN, etc.; E = S, SO, SO₂, O; X = H, halo, alkyl, etc.; Y, Z = H, OR₂; R₂ = H, alkyl, aralkyl, etc.; C = H, halo, OR₄; R₄ = H, alkyl, 5-thiazolidine-2,4-dione,

etc.] and their pharmaceutically acceptable salts, which are useful in treating metabolic disorders related to insulin resistance or hyperglycemia, were prepd. Thus, treatment of 4-benzo[b]naphtho[2,3-d]thiophen-11-ylphenol and KOAc in AcOH with a soln. of Br₂ in glacial AcOH afforded I [E = S; Y = Z = H; X = Br; A = H; B = D = Br; C = OH] which showed IC₅₀ of 0.384 .mu.M against human recombinant PTP1B.

IT 591-31-1

RL: RCT (Reactant); RACT (Reactant or reagent)
(prepn. of 11-aryl-benzo[b]naphtho[2,3-d]furans and
11-aryl-benzo[b]naphtho[2,3-d]thiophenes useful in the treatment of
insulin resistance and hyperglycemia)

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 18 OF 44 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1999:736685 HCAPLUS

DOCUMENT NUMBER: 131:351222

TITLE: Preparation of .alpha.-(biphenylyloxo)alkanoic acids
for treatment of insulin resistance and hyperglycemia

INVENTOR(S): Malamas, Michael Sotirios; McDevitt, Robert Emmett;
Adebayo, Folake Oluwemimo

PATENT ASSIGNEE(S): American Home Products Corporation, USA

SOURCE: PCT Int. Appl., 79 pp.

CODEN: PIXXD2

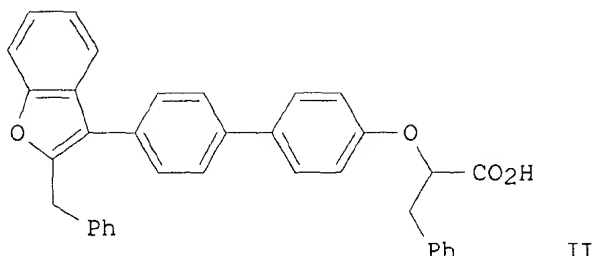
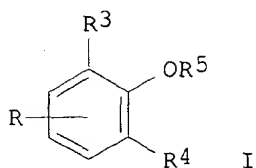
DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9958518	A2	19991118	WO 1999-US10201	19990510
WO 9958518	A3	20000120		
W:	AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
CA 2330557	AA	19991118	CA 1999-2330557	19990510
AU 9941836	A1	19991129	AU 1999-41836	19990510
EP 1077967	A2	20010228	EP 1999-925583	19990510
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, SI, LT, LV, FI, RO			
JP 2002514635	T2	20020521	JP 2000-548322	19990510
PRIORITY APPLN. INFO.:			US 1998-76205 A	19980512
			WO 1999-US10201 W	19990510
OTHER SOURCE(S):	MARPAT 131:351222			
GI				



AB Title compds. [I; R = 4-(R1Z1Z2)C6H4; R1 = (ar)alkyl, alkoxy, (hetero)aryl, etc.; Z1 = bond, CH2, CO, CH(OH); Z2 = (benz)imidazolylene, (benzo)furylene, thienylene, etc.; R3,R4 = H, halo, alkyl, alkoxy, etc.; R5 = H, alkyl, CH2CO2H, CHR8CH2CO2H, etc.; R8 = H, (ar)alkyl, aryl, etc.] were prepd. as protein-tyrosine phosphatase inhibitors. Thus, 4-BrC6H4COCH2Br was etherified by PhOH and the cyclized product condensed with 4-(MeO)C6H4B(OH)2 to give, after O-demethylation, 3-(4'-hydroxybiphenyl)benzofuran which was acylated by BzNMeOMe and the reduced product etherified by (R)-PhCH2CH(OH)CO2Me to give, after sapon., title compd (S)-II. Data for biol. activity of I were given.

IT **120-14-9**, 3,4-Dimethoxybenzaldehyde
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (prepn. of .alpha.-(biphenyloxy)alkanoic acids for treatment of
insulin resistance and hyperglycemia)

L13 ANSWER 19 OF 44 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1999:172597 HCAPLUS

DOCUMENT NUMBER: 130:209716

TITLE: Preparation of 2-vinyl-4-aminoquinazoline derivatives as insulin secretion promoters and antidiabetics

INVENTOR(S): Ueno, Kimihisa; Nomoto, Yuji; Takasaki, Kotaro; Yoshida, Miho; Kusaka, Hideaki; Yano, Hiroshi; Nakanishi, Satoshi; Matsuda, Yuzuru; Uesaka, Noriaki; Suzuki, Chiharu

PATENT ASSIGNEE(S): Kyowa Hakko Kogyo Co., Ltd., Japan; et al.

SOURCE: PCT Int. Appl., 113 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9909986	A1	19990304	WO 1998-JP3711	19980821
W: AU, BG, BR, CA, CN, CZ, HU, IL, JP, KR, MX, NO, NZ, PL, RO, SG, SI, SK, UA, US, VN, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
AU 9887487	A1	19990316	AU 1998-87487	19980821
PRIORITY APPLN. INFO.:			JP 1997-225963	19970822
			WO 1998-JP3711	19980821

OTHER SOURCE(S): MARPAT 130:209716
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Claimed are insulin secretion promoters and remedies for diabetes which contain as the active ingredient 2-vinyl-4-aminoquinazoline derivs. represented by general formula (I) or pharmacol. acceptable salts thereof [wherein R1A and R1B are the same or different and each represents hydrogen, lower alkyl, lower alkoxy, halogeno, nitro, NR3R4 (wherein R3 and R4 are the same or different and each represents hydrogen or lower alkyl), etc.; or R1A may form together with R1B adjacent thereto O(CH2)nO (wherein n is 1 or 2); Cy represents optionally substituted aryl; R2 represents hydrogen or optionally substituted lower alkyl; and A represents hydrogen or optionally substituted lower alkyl, optionally substituted cycloalkyl, etc.; or R2 and A may form together with the nitrogen atom adjacent thereto an optionally substituted heterocycle]. These compds. exhibited insulin secretion activity at high concn. of glucose (14.5 mM) but no substantial activity at low concn. of glucose (.1 to req. 5 mM). For comparison, glubenclamide did exhibit substantial insulin-secretion activity at low concn. of glucose. Thus, 7-chloro-7-methoxy-2-[2-(E)-(2,4-dimethoxyphenyl)vinyl]quinazoline was condensed with N-methylphenethylamine to give the title compd. (II). II in vitro showed insulin secretion activity of 3,413 ng/mL at 1 .mu.M under 14.5 mM glucose and 86 ng/mL at 10 .mu.M under 5 mM glucose in spleen .beta.-cells (MIN6) as compared to that of 684 ng/mL at 0.1 .mu.M under 14.5 mM glucose and 317 ng/mL at 0.1 .mu.M under 5 mM glucose for glubenclamide.

IT 93-02-7, 2,5-Dimethoxybenzaldehyde 591-31-1,
m-Anisaldehyde

RL: RCT (Reactant); RACT (Reactant or reagent)
(prepn. of vinylaminoquinazoline derivs. as insulin secretion promoters and antidiabetics)

REFERENCE COUNT: 23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 20 OF 44 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1999:168719 HCAPLUS

DOCUMENT NUMBER: 131:18199

TITLE: Effect of .gamma.-radiation on the volatile oil constituents of some Indian spices

AUTHOR(S): Variyar, Prasad S.; Bandyopadhyay, C.; Thomas, P.

CORPORATE SOURCE: Food Technology Division, Bhabha Atomic Research Centre, Mumbai, 85, India

SOURCE: Food Research International (1999), Volume Date 1998, 31(2), 105-109

CODEN: FORIEU; ISSN: 0963-9969

PUBLISHER: Elsevier Science Ltd.

DOCUMENT TYPE: Journal

LANGUAGE: English

AB The volatile essential oils of com. samples of clove, cardamom and nutmeg gamma-irradiated at 10 KGy for microbial decontamination were isolated by simultaneous distn.-extn. technique and then analyzed by gas liq. chromatog. (GLC) along with their non-irradiated counterparts. No qual. and major quant. changes were obsd. in the essential oil constituents of irradiated clove and cardamom. However in case of irradiated nutmeg, a 6-fold increase in the content of myristicin accompanied by a decrease of similar magnitude in elemicin content was noted. The possible impact of such changes on the sensory properties of nutmeg is discussed.

IT 121-33-5, Vanillin

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)
(effect of .gamma.-radiation on volatile oil constituents of Indian spices)

REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 21 OF 44 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1998:735784 HCAPLUS
DOCUMENT NUMBER: 129:335009
TITLE: Kinetics of the elimination of vanillin by UV radiation catalyzed with hydrogen peroxide
AUTHOR(S): Benitez, F. Javier; Beltran-Heredia, Jesus; Gonzalez, Teresa; Real, Francisco
CORPORATE SOURCE: Departamento Ingenieria Quimica Energetica, Univ. Extremadura, Badajoz, E-06071, Spain
SOURCE: Fresenius Environmental Bulletin (1998), 7(11/12), 726-733
CODEN: FENBEL; ISSN: 1018-4619
PUBLISHER: Fresenius Environmental Bulletin
DOCUMENT TYPE: Journal
LANGUAGE: English

AB The photodegrdn. of vanillin, the major phenolic pollutant in agro-industrial wastewater by the advanced oxidn. process, was carried out in a cylindrical glass reactor with a lamp located in axial position. The reactor was thermostated at the desired temp. for detn. of the temp. dependence of the reaction rate. The combined UV-H2O2 degrdn. was performed under variation of temp., pH, and the initial H2O2 concn. The results of the kinetic investigations allowed to propose a reaction mechanism and a general reaction expression taken into account the direct photolysis and the radical reaction. The application of the exptl. data to this reaction rate expression led to the evaluation of the kinetic consts. for the radical reaction between vanillin and the hydroxyl radical.

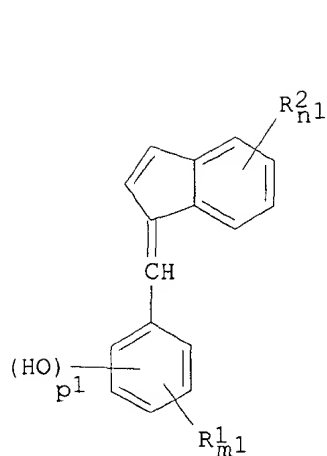
IT 121-33-5, Vanillin

RL: POL (Pollutant); REM (Removal or disposal); OCCU (Occurrence); PROC (Process)
(kinetics of vanillin elimination in wastewater by UV radiation and hydrogen peroxide)

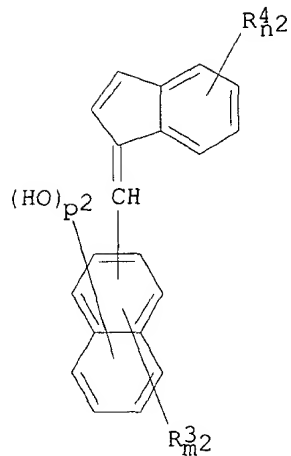
L13 ANSWER 22 OF 44 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1998:424549 HCAPLUS
DOCUMENT NUMBER: 129:142605
TITLE: Radiation-sensitive photoresist compositions with less standing wave effect and halation
INVENTOR(S): Inomata, Katsuki; Akiyama, Masahiro; Iwanaga, Shinichiro
PATENT ASSIGNEE(S): Japan Synthetic Rubber Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 12 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 10177248	A2	19980630	JP 1996-353287	19961217
OTHER SOURCE(S): MARPAT 129:142605				
GI				



I



II

AB The compns., useful for fabrication of integrated circuits, comprise alkali-sol. resins, I and/or II [R1-4 = alkyl (oxy), aryl; m1, m2 = 0-3; n1, n2 = 0-2; p1, p2 = 1-3; (m1 + p1) = 1-5; (m2 + p2) = 1-8], and 1,2-quinonediazide compds.

IT 121-33-5, Vanillin

RL: RCT (Reactant); RACT (Reactant or reagent)

(in prepn. of phenol or naphthol derivs. for **radiation**-sensitive photoresist components)

L13 ANSWER 23 OF 44 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1998:175833 HCAPLUS

DOCUMENT NUMBER: 128:237219

TITLE: Radiation-sensitive resin composition

INVENTOR(S): Hirose, Kouichi; Akiyama, Masahiro; Inomata, Katsumi; Yumoto, Yoshiji

PATENT ASSIGNEE(S): Japan Synthetic Rubber Co., Ltd., Japan

SOURCE: Eur. Pat. Appl., 25 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 827024	A2	19980304	EP 1997-114862	19970827
EP 827024	A3	19980513		

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI

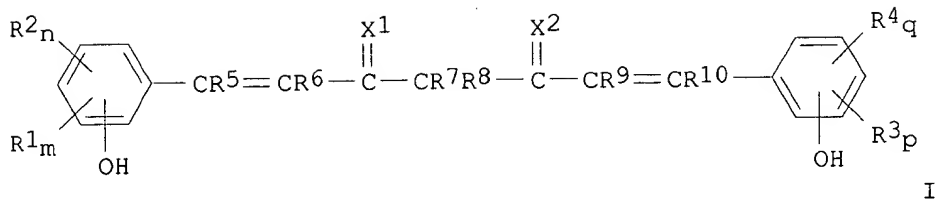
JP 10133366	A2	19980522	JP 1997-246172	19970827
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US 5958645	A	19990928	US 1997-917727	19970827
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PRIORITY APPLN. INFO.:	JP 1996-245535	19960828
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OTHER SOURCE(S): MARPAT 128:237219

GI



I

- AB A radiation-sensitive resin compn. including; (i) an alkali-sol. resin; (ii) a phenol compd. represented by the following formula (I): wherein R1 to R4 are each represent halogen, alkyl, alkoxy, aryl, nitro, cyano, hydroxyalkyl, hydroxy alkoxy or hydroxyl; m, n, p and q each represent an integer of 0 to 4 and satisfying 0 .ltoreq. m+n .ltoreq. 4 and 0 .ltoreq. p+q .ltoreq. 4, provided that when m + n is 1 and p + q is 1, at least one of R1 (or R2) and R3 (or R4) is alkyl, hydroxyalkyl or hydroxy alkoxy; R5 to R10 are each represent hydrogen, alkyl or aryl; and X1 and X2 each represent oxygen or sulfur; and (iii) a 1,2-quinone diazide compd. This compn. has good resoln., sensitivity and developability, and further it has as a pos. resist good focal latitude and heat resistance. No fine particles may form during storage.
- IT **134-96-3**, 3,5-Dimethoxy-4-hydroxybenzaldehyde
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (prepn. of phenol compd. for **radiation** sensitive resin compn.)

L13 ANSWER 24 OF 44 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1998:137214 HCAPLUS

DOCUMENT NUMBER: 128:267747

TITLE: Protective effect of vanillin on radiation-induced micronuclei and chromosomal aberrations in V79 cells
 AUTHOR(S): Keshava, Channa; Keshava, Nagalakshmi; Ong, Tong-man; Nath, Joginder

CORPORATE SOURCE: College of Agriculture and Forestry, Genetics and Developmental Biology Program, West Virginia University, Morgantown, WV, 26506-6108, USA

SOURCE: Mutation Research (1998), 397(2), 149-159
 CODEN: MUREAV; ISSN: 0027-5107

PUBLISHER: Elsevier Science B.V.

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Vanillin (VA), an anticlastogen, has been demonstrated to inhibit gene mutations in both bacterial and mammalian cells. However, the data on its effect against radiation-induced cytogenetic damage are limited. The aim of this study was to investigate the protective effect of VA on radiation-induced chromosomal damage in V79 cells. Exponentially growing cells were exposed to five doses of X-rays (1-12 Gy) and UV radiation (50-800 .mu.J.times.102 cm-2) and posttreated with 3 concns. of VA (5, 50 or 100 .mu.g ml-1) for 16 h for micronucleus (MN) and 18 h for structural chromosomal aberration (SCA) analyses. MN and SCA assays were performed concurrently according to std. procedures. Results indicate that there was a dose related increase in the percent of micronucleated binucleated cells (MNBN) (5.6 to 79.6) and percent of aberrant cells (Abs) (12 to 98) with X-ray treatment alone. Inhibition studies showed that the addn. of VA at 100 .mu.g ml-1 significantly reduced the percent of MNBN (21 to 48) induced by X-rays at 1, 2, and 4 Gy. There was a slight decrease in percent MNBN at 5 and 50 .mu.g VA ml-1. All three concns. of VA decreased percent Abs (15.7 to 57.1) induced by X-rays at all doses. UV radiation alone significantly increased percent MNBN (3.5 to 14.8) and percent Abs (17 to 29). Addn. of 50 or 100 .mu.g VA ml-1, significantly decreased percent MNBN (31.7 to 86.2) and percent Abs (54.5 to 90.9) at all doses of

UV radiation. A decrease in percent MNBN (2.8 to 72.4) and percent Abs (34.8 to 66.7) was also noted at 5 .mu.g VA ml-1. These data clearly indicate the protective effect of VA on radiation-induced chromosomal damage, suggesting that VA is an anticlastogenic agent.

IT 121-33-5, Vanillin

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(vanillin protective effect on **radiation**-induced micronuclei and chromosomal aberrations)

L13 ANSWER 25 OF 44 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1998:87808 HCAPLUS

DOCUMENT NUMBER: 128:158724

TITLE: Oxidative dyes containing aldehydes for keratin-containing fibers

INVENTOR(S): Moeller, Hinrich; Hoeffkes, Horst

PATENT ASSIGNEE(S): Henkel K.-G.a.A., Germany

SOURCE: Ger. Offen., 12 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

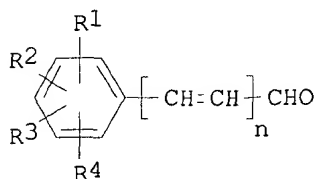
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19630275	A1	19980129	DE 1996-19630275	19960726
EP 820759	A2	19980128	EP 1997-112194	19970717
EP 820759	A3	19981021		

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI

PRIORITY APPLN. INFO.: DE 1996-19630275 19960726

OTHER SOURCE(S): MARPAT 128:158724

GI



I

AB Direct hair dyes contg. an aldehyde I (R1-R4 = H, halo, C1-4 alkyl or alkoxy, C2-4 hydroxyalkyl, C1-4 aminoalkyl, NO2, CO2H, SO3H, etc.; n = 0, 1) and a dye precursor comprising a primary or secondary arom. amine, an N-contg. heterocycle, an arom. hydroxy compd., an amino acid, and/or an oligopeptide may be used either with or without addn. of oxidizing agents such as H2O2. In either case, the dyes show excellent color intensity in a wide range of color nuances from yellowish-orange to brownish-black, excellent color fastness, and very low sensitizing potential. Thus, a soln. contg. equal parts of 2,3,4-trihydroxybenzaldehyde and 2-aminomethyl-4-aminophenol-Dihydrochloride produced a strong brownish-orange color on gray hair.

IT 121-33-5, Vanillin

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(oxidative dyes contg. aldehydes for **keratin**-contg. fibers)

L13 ANSWER 26 OF 44 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1997:217387 HCAPLUS

DOCUMENT NUMBER: 126:279275

TITLE: Spectroscopic and catalytic studies of selected polyimines protonated with heteropolyacids

AUTHOR(S): Stochmal-Pomarzanska, E.; Quillard, S.; Hasik, M.; Turek, W.; Pron, A.; Lapkowski, M.; Lefrant, S.

CORPORATE SOURCE: Academy of Mining and Metallurgy, Mickiewiczza 30, Krakow, 30059, Pol.

SOURCE: Synthetic Metals (1997), 84(1-3), 427-428

CODEN: SYMEDZ; ISSN: 0379-6779

PUBLISHER: Elsevier

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Arom. poly(azomethines), prepd. from p-phenylenediamine and terephthalaldehyde or 2,5-dimethoxyterephthalaldehyde, have been protonated with heteropolyacids (H3PW12O40 and H3PMo12O40) in order to obtain new conjugated polymer-supported catalysts. Detailed Raman and FTIR spectroscopic studies of the undoped and doped polymers have been performed. In isopropanol dehydration and oxidn., these new catalysts exhibit predominantly redox activity producing acetone with high selectivity.

IT 135789-41-2

RL: CAT (Catalyst use); PRP (Properties); USES (Uses)

(spectroscopic and **isopropanol** dehydration and oxidn.

catalytic studies of polyazomethines protonated with heteropolyacids)

L13 ANSWER 27 OF 44 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1996:420298 HCAPLUS

DOCUMENT NUMBER: 125:195563

TITLE: Synthesis and radiation stability of novel thiazolopyrimidines with expected antifungal activity

AUTHOR(S): Ghorab, m. M.; Mohamed, Y. A.; Mohamed, S. A.; Ammar, Y. A.

CORPORATE SOURCE: Dep. Drug Radiation Res., Atomic Energy Authority, Cairo, Egypt

SOURCE: Phosphorus, Sulfur and Silicon and the Related

Elements (1996), 108(1-4), 249-256

CODEN: PSSLEC; ISSN: 1042-6507

PUBLISHER: Gordon & Breach

DOCUMENT TYPE: Journal

LANGUAGE: English

AB A no. of thiazolopyrimidines were prepd. through interaction of 6-methyl-4-(4'-chlorophenyl)-2-thioxo-1,2,3,4-tetrahydropyrimidine-5-carboxylic acid Et ester with many reagents. The antifungal activity of all prepd. compds. have been detd. using Dithane M-45 as a std. fungicide. Some compds. showed a high fungicidal activity equiv. to that of the std. towards Aspergillus niger and Aspergillus ochraceus. Also some biol. active compds. were subjected to gamma irradiation and the structures are stable.

IT 120-14-9, 3,4-Dimethoxybenzaldehyde

RL: RCT (Reactant); RACT (Reactant or reagent)

(prepn. and **radiation** stability of fungicidal thiazolopyrimidines)

L13 ANSWER 28 OF 44 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1995:898953 HCAPLUS

DOCUMENT NUMBER: 123:284214

TITLE: Collagen-based edible film for food packaging

INVENTOR(S): Peiffer, Bernd; Keil, Joachim; Maser, Franz

PATENT ASSIGNEE(S): Naturin GmbH und Co., Germany

SOURCE: Ger. Offen., 4 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 4343670	A1	19950622	DE 1993-4343670	19931221
US 5736180	A	19980407	US 1995-507242	19951113
PRIORITY APPLN. INFO.:			DE 1993-4343670	19931221
			WO 1994-EP3395	19941014

AB A collagen-based edible film contg. a finely divided spice for food packaging is claimed. The film can also contain coloring, aroma and flavoring materials. Paprika powder was mixed at 1% with a collagen suspension and extruded to 20 .mu.m thickness, dried, and reconditioned to be used as a film for coating raw ham.

IT **121-33-5**, Vanillin
 RL: FFD (Food or feed use); PEP (Physical, engineering or chemical process); BIOL (Biological study); PROC (Process); USES (Uses)
 (collagen-based edible film for food packaging)

L13 ANSWER 29 OF 44 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1994:482620 HCAPLUS

DOCUMENT NUMBER: 121:82620

TITLE: Synthesis of vanillin by ultrasonic radiation and phase transfer catalysis

AUTHOR(S): Jiang, Yuren; Xu, Junhuang

CORPORATE SOURCE: Dep. Chem., Cent. South Univ. Technol., Changsha, 410083, Peop. Rep. China

SOURCE: Zhongnan Kuangye Xueyuan Xuebao (1994), 25(1), 132-6
 CODEN: CKYPDO; ISSN: 0253-4347

DOCUMENT TYPE: Journal

LANGUAGE: Chinese

OTHER SOURCE(S): CASREACT 121:82620

AB The application of synergistic technol. of ultrasonic radiation and phase transfer catalysis in Reimer-Tiemann reaction was studied for the first time and the effect of factors on reaction was also investigated. By using PEG-6000 as PTC with 2 h of ultrasonic radiation, vanillin was synthesized in 39.2% yield from guaiacol in solid-liq. phase. Not only was yield of vanillin 7.2% higher but the reacting time was also shortened to half in comparison with the best results of the study on the same reaction.

IT **121-33-5P**, Vanillin
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of, from guaiacol by ultrasonic **radiation** and phase transfer catalysis)

L13 ANSWER 30 OF 44 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1994:207918 HCAPLUS

DOCUMENT NUMBER: 120:207918

TITLE: Comparative molecular field analysis combined with physicochemical parameters for prediction of polydimethylsiloxane membrane flux in isopropanol

AUTHOR(S): Liu, Rong; Matheson, Lloyd E.

CORPORATE SOURCE: Lederle lab., Am. Cyanamid Co., Pearl River, NY, 10965, USA

SOURCE: Pharm. Res. (1994), 11(2), 257-66

CODEN: PHREEB; ISSN: 0724-8741

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Comparative mol. field anal. (CoMFA) combined with various physicochem. parameters were used to develop 3-dimensional quant. structure-transportability relationships (3-D QSTR) to predict membrane flux for 108

arom. and heteroarom. compds. through polydimethylsiloxane (PDMS) membranes in iso-Pr alc. (IPA). Sybyl, a comprehensive computational mol. modeling package, was used to analyze the data. Optimized mol. models were selected using mol. modeling techniques. Partial least-squares (PLS) regression combined with cross validation or bootstrapping was used as the statistical method to establish the predictive models. Prediction was good for the steady-state flux using both steric and electrostatic field descriptors combined with a functional group classification technique. Predictive ability was substantially increased in a model using CoMFA descriptors along with log mole fraction soly. for the penetrants in isopropanol, a hydrophobic term, fchex, which is used to est. the partition coeff. between cyclohexane and water, and the addn. of an intramol. hydrogen bonding (1HB) term. The cross validated r2 and the conventional r2 for this model were 0.951 and 0.973, resp. Excellent predictions are demonstrated for the membrane flux of the compds. both inside and outside the data domain.

IT 591-31-1, m-Anisaldehyde

RL: BIOL (Biological study)

(membrane flux through polydimethylsiloxane in isopropanol of, QSAR of)

L13 ANSWER 31 OF 44 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1993:456147 HCAPLUS

DOCUMENT NUMBER: 119:56147

TITLE: Sustained-release implants containing somatotropin complexes with aromatic aldehydes

INVENTOR(S): Clark, Michael T.; Gyurik, Robert J.; Lewis, Sharon K.; Murray, Marianne C.; Raymond, Matthew J.

PATENT ASSIGNEE(S): SmithKline Beecham Corp., USA

SOURCE: U.S., 4 pp.

CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5198422	A	19930330	US 1992-896958	19920611
IL 105958	A1	19971120	IL 1993-105958	19930608
ZA 9304100	A	19940610	ZA 1993-4100	19930610
WO 9325222	A1	19931223	WO 1993-US5659	19930611
W: AU, BB, BG, BR, BY, CA, CZ, FI, HU, JP, KP, KR, KZ, LK, MG, MN, MW, NO, NZ, PL, RO, RU, SD, SK, UA, VN				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU 9345354	A1	19940104	AU 1993-45354	19930611
AU 670805	B2	19960801		
CN 1085804	A	19940427	CN 1993-108908	19930611
CN 1069214	B	20010808		
EP 644770	A1	19950329	EP 1993-915333	19930611
EP 644770	B1	19990107		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
HU 68917	A2	19950828	HU 1994-3548	19930611
JP 07508003	T2	19950907	JP 1994-501768	19930611
JP 3247380	B2	20020115		
CA 2137677	C	19980825	CA 1993-2137677	19930611
AT 175355	E	19990115	AT 1993-915333	19930611
ES 2125990	T3	19990316	ES 1993-915333	19930611
PL 175971	B1	19990331	PL 1993-306726	19930611
NO 9404782	A	19941209	NO 1994-4782	19941209
PRIORITY APPLN. INFO.:				
			US 1992-896958	A 19920611
			WO 1993-US5659	A 19930611

OTHER SOURCE(S): MARPAT 119:56147

AB Somatotropin (I) complexes with an arom. aldehyde are administered parenterally to animals to provide a prolonged release of I and improved feed efficiency. Thus, soln. of porcine I was reacted with 2-hydroxy-3-methoxy benzaldehyde (II) at 39.degree. for 6-24 h to obtain I-II complex. Pellets contg. I complex were implanted s.c. in pigs. There was a sustained plasma I level and increase over the control in both the av. daily gain and feed-to-gain ratio.

IT **148696-71-3 148696-72-4**

RL: BIOL (Biological study)

(sustained-release parenteral pharmaceutical implants contg.)

L13 ANSWER 32 OF 44 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1991:583275 HCAPLUS

DOCUMENT NUMBER: 115:183275

TITLE: Preparation of 3-(aminoalkyl)-2-arylthiazolidines as radioprotectants

INVENTOR(S): Lyle, Robert E.; McManon, William A.; Mangold, Donald J.; Swynnerton, Nollie F.

PATENT ASSIGNEE(S): Southwest Research Institute, USA

SOURCE: U.S., 5 pp.

CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

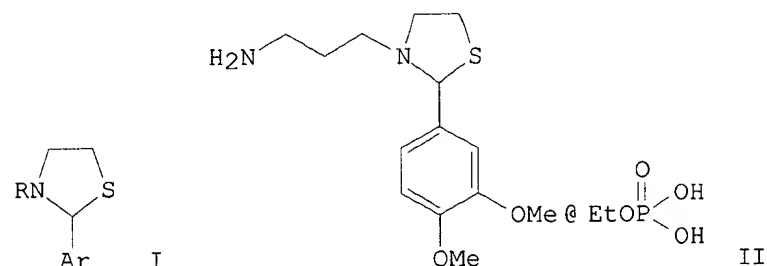
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5028715	A	19910702	US 1989-306922	19890206

OTHER SOURCE(S): MARPAT 115:183275

GI



AB Title compds. [I; R = aminoalkyl; Ar = (halo-, O₂N-, alkoxy-, alkyl-, or 3,4-alkylenedioxy-substituted) Ph], were prepd. Thus, a mixt. of 3,4-(MeO)₂C₆H₃CHO, H₂N(CH₂)₃NHCH₂CH₂SPO₃H₂, and EtOH was stirred with heating for 48 h to give title compd. II. II at 54.3 mg/kg i.p. in mice gave 100% protection against 1000 rad .gamma.-radiation, and showed no drug-related lethality at that dose.

IT **120-14-9, 3,4-Dimethoxybenzaldehyde 591-31-1,**

m-Methoxybenzaldehyde

RL: RCT (Reactant)

(cyclocondensation of, with aminoethylthiophosphate, in prepn. of radioprotectants)

L13 ANSWER 33 OF 44 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1990:402644 HCAPLUS

DOCUMENT NUMBER: 113:2644

TITLE: Suppressing effects of vanillin, cinnamaldehyde, and

anisaldehyde on chromosome aberrations induced by x-rays in mice

AUTHOR(S): Sasaki, Yu F.; Ohta, Toshihiro; Imanishi, Hisako; Watanabe, Mie; Matsumoto, Kyomu; Kato, Tomoko; Shirasu, Yasuhiko

CORPORATE SOURCE: Inst. Environ. Toxicol., Kodaira, 187, Japan

SOURCE: Mutat. Res. (1990), 243(4), 299-302
CODEN: MUREAV; ISSN: 0027-5107

DOCUMENT TYPE: Journal

LANGUAGE: English

AB X-ray-induced chromosome aberrations were suppressed when vanillin, cinnamaldehyde, or p-anisaldehyde was given orally to mice after x-ray irradiation. Chromosome aberrations were monitored by the occurrence of polychromatic erythrocytes with micronuclei in bone marrow cells. The frequency of micronuclei was depressed approximately 55-60% without toxicity of the test compounds to the bone marrow.

IT **121-33-5**
RL: BIOL (Biological study)
(**radioprotection** by, of chromosome aberrations in bone marrow cells induction by x-rays)

L13 ANSWER 34 OF 44 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1990:194543 HCAPLUS

DOCUMENT NUMBER: 112:194543

TITLE: Suppressing effect of antimutagenic flavorings on chromosome aberrations induced by UV-light or x-rays in cultured Chinese hamster cells

AUTHOR(S): Sasaki, Yu F.; Imanishi, Hisako; Watanabe, Mie; Ohta, Toshihiro; Shirasu, Yasuhiko

CORPORATE SOURCE: Inst. Environ. Toxicol., Tokyo, 187, Japan

SOURCE: Mutat. Res. (1990), 229(1), 1-10
CODEN: MUREAV; ISSN: 0027-5107

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Chromosome aberrations induced by UV light or x-rays were suppressed by the post-treatment with antimutagenic flavorings, such as anisaldehyde, cinnamaldehyde, coumarin, and vanillin. UV- or x-irradiating surviving cells increased in the presence of each flavoring. X-ray-induced breakage-type and exchange-type chromosome aberrations were suppressed by the vanillin treatment in the G1 phase of the cell cycle and a greater decrease in the no. of x-ray-induced chromosome aberrations during G1 holding was observed in the presence of vanillin. Furthermore, a greater decrease in the no. of x-ray-induced DNA single-strand breaks was observed in the presence of vanillin. Treatment with vanillin in the G2 phase suppressed UV- and x-ray-induced breakage-type but not exchange-type chromosome aberrations. The suppression of breakage-type aberrations was assumed to be due to a modification of the capability of the post-replicative repair of DNA double-strand breaks. These G1- and G2-dependent anticlastogenic effects were not observed in the presence of 2',3'-dideoxythymidine, an inhibitor of DNA polymerase β . Based on these results, the anticlastogenic effect of vanillin was considered to be due to the promotion of the DNA rejoining process in which DNA polymerase β acts.

IT **121-33-5**
RL: BIOL (Biological study)
(chromosome aberrations in CHO cells induction by UV **radiation** and x-rays suppression by)

L13 ANSWER 35 OF 44 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1988:211071 HCAPLUS

DOCUMENT NUMBER: 108:211071

TITLE: Effect of gamma-irradiation on the uncatalyzed bromate oscillator

AUTHOR(S): Krishnaratnam, M.; Viswanathan, B.; Ramaswamy, R.
 CORPORATE SOURCE: Dep. Chem., Indian Inst. Technol., Madras, 600 036, India
 SOURCE: J. Radioanal. Nucl. Chem. (1988), 120(2), 353-9
 CODEN: JRNCMD; ISSN: 0236-5731
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB The characteristics of the uncatalyzed BrO₃- oscillator are altered in the presence of .gamma. radiation. These alterations could not be accounted for in terms of substrates acting as scavengers for H atoms. The alteration of the effective activity of the key species in the presence of .gamma.-irradn. can account for the changes obsd. in the oscillation characteristics.
 IT 120-14-9, Veratraldehyde
 RL: RCT (Reactant)
 (oscillating reaction of, with bromate, effect of .gamma.-radiation on)

L13 ANSWER 36 OF 44 HCAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1986:511139 HCAPLUS
 DOCUMENT NUMBER: 105:111139
 TITLE: Radioprotective and antitumor activity of some tetrazole derivatives
 AUTHOR(S): Kitaeva, V. G.; Ishmetova, R. I.; Latosh, N. I.; Malkina, R. M.; Anoshina, G. M.
 CORPORATE SOURCE: Inst. Khim., Sverdlovsk, USSR
 SOURCE: Khim.-Farm. Zh. (1986), 20(5), 559-63
 CODEN: KHFZAN; ISSN: 0023-1134
 DOCUMENT TYPE: Journal
 LANGUAGE: Russian
 AB Nine N1(N2), C5-substituted tetrazoles were prepd. and their toxicities, radioprotective activities, and antitumor activities were detd. The derivs., which had LD50 values of 850-2000 mg/kg, were less toxic than the parent 5-substituted tetrazoles. The majority of the compds. showed no radioprotective activity, as detd. by the survival rates of mice exposed to LDs of radiation for 30 days. However, 1-(3,5-dimethyl-4-hydroxybenzyl)-5-(4-pyridyl)tetrazole was an efficient radioprotectant; a survival rate of 46.5% was obtained with this compd. With the exception of 2-(3,5-dimethyl-4-hydroxybenzyl)-5-(3-pyridyl)tetrazole, which inhibited the growth of sarcoma 37 by 65%, the compds. possessed no significant antitumor activities, and, in some cases, actually stimulated tumor growth.
 IT 104065-29-4 104065-31-8
 RL: ADV (Adverse effect, including toxicity); BIOL (Biological study)
 (toxicity and other properties of, antitumor and radioprotective activities in relation to)

L13 ANSWER 37 OF 44 HCAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1986:125733 HCAPLUS
 DOCUMENT NUMBER: 104:125733
 TITLE: Antimutagenic effects of 5-fluorouracil and 5-fluorodeoxyuridine on UV-induced mutagenesis in Escherichia coli
 AUTHOR(S): Ohta, T.; Watanabe, M.; Tsukamoto, R.; Shirasu, Y.; Kada, T.
 CORPORATE SOURCE: Inst. Environ. Toxicol., Tokyo, 187, Japan
 SOURCE: Mutat. Res. (1986), 173(1), 19-24
 CODEN: MUREAV; ISSN: 0027-5107
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB Inhibitors of UV induction of the SOS function were screened. A log phase culture of E. coli PQ37 (sulA::lacZ, rfa, uvrA, Phoc) was irradiated with UV and then immediately subjected to culture for 2 h in a liq. LB medium

contg. each test compd. Expression of the SOS gene (sulA) was assayed by monitoring the levels of .beta.-galactosidase. To examine the inhibitory effects of test compds. on protein synthesis, the levels of the constitutive alk. phosphatase were assayed in parallel. The total no. of compds. tested was 233, including 44 food and feed additives, 23 naturally occurring compds. and derivs., 21 antibiotics, 61 pesticides, 33 inorgs., and 51 other chems. As a result, 5-fluorouracil and 5-fluorodeoxyuridine were found to inhibit considerably the UV induction of the SOS gene without any inhibition of protein synthesis. Mutagenesis induced by UV irradiation was depressed by the addition of either compd. at nontoxic concns.

IT 121-33-5

RL: BIOL (Biological study)

(mutation of Escherichia coli induction by UV radiation in response to)

L13 ANSWER 38 OF 44 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1985:505370 HCAPLUS

DOCUMENT NUMBER: 103:105370

TITLE: Poly[4,4' [2,5-bis(4-oxy-3-methoxybenzylidene)cyclopentanone]phenylphosphonate] and related photosensitive polycondensates. {Poly[oxy(phenylphosphonoyl)oxy(2-methoxy-1,4-phenylene)methylidyne(2-oxo-1,3-cyclopentanediyldiene)methylidyne(3-methoxy-1,4-phenylene)]}

AUTHOR(S): Borden, D. G.

CORPORATE SOURCE: Res. Lab., Eastman Kodak Co., Rochester, NY, USA

SOURCE: Macromol. Synth. (1985), 9, 5-10

CODEN: MASYAO; ISSN: 0076-2091

DOCUMENT TYPE: Journal

LANGUAGE: English

AB 2,5-Bis(4-hydroxy-3-methoxybenzylidene)cyclopentanone (I) [7249-34-5] was prepd. by treating vanillin [121-33-5] with cyclopentanone [120-92-3] in the presence of BF₃.OEt₂ and polycond. with PhP(O)Cl₂ or azelaoyl chloride to give a photocurable polyphosphonate (II) [97876-83-0] and polyester (III) [97876-84-1], resp. I was also polycond. with tetrachlorobisphenol A and sebacyl chloride to give a photocurable terpolymer [66509-29-3] having intrinsic viscosity 1.09 dL/g (in CH₂ClCHCl₂) and UV absorption max. at 363 nm. III had intrinsic viscosity 0.66 dL/g, av. mol. wt. 58,684, polydispersity 12.54, UV absorption max. at 375 nm, and the same degree of crosslinking as II with approx. one-tenth the exposure to UV radiation.

L13 ANSWER 39 OF 44 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1982:529328 HCAPLUS

DOCUMENT NUMBER: 97:129328

TITLE: Organic compounds in kraft bleaching spent liquors. V. Photodegradation of red-pine chlorinated oxylignin

AUTHOR(S): Shimada, Kinji

CORPORATE SOURCE: Div. For. Prod. Chem., For. For. Prod. Res. Inst.,

Ibaraki, 305, Japan

SOURCE: Mokuzai Gakkaishi (1982), 28(6), 376-82

CODEN: MKZGA7; ISSN: 0021-4795

DOCUMENT TYPE: Journal

LANGUAGE: English

AB The degradn. of chlorinated oxylignin (I) in NaOH soln. with UV light in the presence of O₂ increased with increasing pH and resulted in the formation of low-mol.-wt. compds. with accompanying dechlorination, demethoxylation, and cleavage of the arom. rings and in the redn. of COD of I solns. Upon UV irradiation in the presence of N₂, no redn. of COD and cleavage of arom. rings were obsd., but Cl and methoxy groups were removed, the color of the I soln. became dark, and the I was polycond. slightly. In the methoxy group-contg. chlorinated model compds. for

lignin, the cleavage of C-Cl bonds in the presence of N promoted a demethoxylation reaction.

IT 18268-76-3 19463-48-0 82668-20-0

RL: PRP (Properties)

(degrdn. of, by UV **radiation**, as model compd. for chlorinated oxygignin)

L13 ANSWER 40 OF 44 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1979:7842 HCAPLUS

DOCUMENT NUMBER: 90:7842

TITLE: Effect of cobalt-60 .gamma.-radiation on a sprucewood lignocarbhydrate complex, coniferin, and glucovanillin

AUTHOR(S): Sergeeva, V. N.; Kreicberga, Z.; Ekabsome, M.; Rajavee, E.; Muiznieks, A.

CORPORATE SOURCE: Inst. Khim. Drev, Riga, USSR

SOURCE: Khim. Drev. (1978), (5), 58-67

CODEN: KHDRDQ

DOCUMENT TYPE: Journal

LANGUAGE: Russian

AB Lignin (I) [9005-53-2]-carbhydrate bonds in sprucewood lignin-carbhydrate complexes and phenylglucoside bonds in glucovanillin (II) [494-08-6] and coniferin (III) [531-29-3] are resistant to .gamma.-ray irradiation from a 60Co source at doses of 5-50 Mrads. The irradiation of II and III with a dose of 50 Mrads does not affect the resistance of phenylglucoside bond to acid hydrolysis. The protective effect of I with respect to carbhydrates in sprucewood lignin-carbhydrate complexes is observed during irradiation with doses of 50 Mrads, but the protective effect of I decreases with increasing irradiation dose. The irradiation of lignin-carbhydrate complexes with doses >50 Mrads causes condensation.

IT 494-08-6

RL: PRP (Properties)

(**radiation** resistance of)

L13 ANSWER 41 OF 44 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1977:431632 HCAPLUS

DOCUMENT NUMBER: 87:31632

TITLE: New nonlinear organic materials for generation of second harmonics of neodymium laser radiation

AUTHOR(S): Davydov, B. L.; Kotovshchikov, S. G.; Nefedov, V. A.

CORPORATE SOURCE: Inst. Radioelektron., Moscow, USSR

SOURCE: Kvantovaya Elektron. (Moscow) (1977), 4(1), 214-20

CODEN: KVEKA3

DOCUMENT TYPE: Journal

LANGUAGE: Russian

AB Results are presented of studies into the Nd laser 2nd harmonic generation in 36 org. cryst. powders. Possible approaches are discussed to the search and synthesis of nonlinear org. materials and the field of their application.

IT 121-33-5

RL: PRP (Properties)

(laser **radiation** second harmonic generation in)

L13 ANSWER 42 OF 44 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1975:508714 HCAPLUS

DOCUMENT NUMBER: 83:108714

TITLE: Use of a hypothetical receptor-site model to predict novel pituitary hormone releasing and inhibiting agents

AUTHOR(S): Smythe, G. A.; Lazarus, L.

CORPORATE SOURCE: Garvan Inst. Med. Res., St. Vincent's Hosp., Sydney, Aust.

SOURCE: Hypothal. Hypophysiotropic Horm., Proc. Conf. (1973),
Meeting Date 1972, 189-97. Editor(s): Gual, Carlos;
Rosemberg, Eugenia. Excerpta Med.: Amsterdam, Neth.
CODEN: 30PKAE

DOCUMENT TYPE: Conference

LANGUAGE: English

AB A hypothetical hypothalamic receptor-site model able to bind mol. models of compds. which can affect the catechol amine-dependent release of pituitary hormones was proposed. The hypothesis enabled the prediction of compds. which antagonize or enhance brain catechol amine action and thus adeno-hypophysial secretion. Effects of various compds. arrived at from mol. model-receptor site model considerations were tested in rats by measuring serum and pituitary levels of prolactin and growth hormone after administration of the test compds. Acute administration of L-DOPA [59-92-7], 3-iodo-L-tyrosine [70-78-0], guaiacol [90-05-1], and 3,4-dimethoxyphenylacetamide [5663-56-9] suppressed serum prolactin [9002-62-4] levels. Vanillin [121-33-5] and 3,4-dimethoxy-L-phenylalanine [32161-30-1] blocked the prolactin-suppressing effect of L-DOPA. Vanillin also decreased the effect of L-DOPA on growth hormone [9002-72-6] secretion. 3,4-Dimethoxy-L-phenylalanine given chronically caused pituitary gland atrophy and decreased growth hormone and prolactin content. 3-Iodo-L-tyrosine and guaiacol given chronically decreased pituitary prolactin levels but increased pituitary wt. Compds. predicted from the model may find a role in treatment of hypothalamic disease states.

L13 ANSWER 43 OF 44 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1975:499482 HCAPLUS

DOCUMENT NUMBER: 83:99482

TITLE: Model for the reaction of lignin with urea

AUTHOR(S): Malyutina, G. I.; Nitryushkina, O. I.

CORPORATE SOURCE: USSR

SOURCE: Sb. Stud. Nauchno-Issled. Rab., Arkhang. Lesotekh.

Inst. (1974), 9, 87-90

CODEN: SSLKA3

DOCUMENT TYPE: Journal

LANGUAGE: Russian

AB The reaction of vanillin (I) [121-33-5] with urea (II) [57-13-6] at 150-180.degree. (conditions of the particle board bonding with the urea-formaldehyde resins) gave a product contg. no CO groups, fewer mole% of the phenolic OH groups than I, and more secondary OH groups than it was expected from the I and II reaction. 4-HO,3-MeOC6H3CH:NCONH2, could be formed in reaction of I with II.

L13 ANSWER 44 OF 44 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1972:479472 HCAPLUS

DOCUMENT NUMBER: 77:79472

TITLE: Nuclear magnetic resonance (NMR) and fragrance materials

AUTHOR(S): Lemberg, Seymour

CORPORATE SOURCE: Coeurarome, Inc., Elizabeth, N. J., USA

SOURCE: Amer. Cosmet. Perfum. (1972), 87(6), 38-41

CODEN: ACPFB5

DOCUMENT TYPE: Journal

LANGUAGE: English

AB NMR is used to detect interaction of fragrances with the system in which they are being used, esp. proteins. Proteins were utilized in a D2O soln. to broaden selectively the NMR signal of various fragrances (vanillin, phenethyl alc., hydroxycitronellal, coumarin, geranyl acetate, and linalool). Nonaq. media could also be used. H2O could not be used, because of conflicting signals.

IT 121-33-5

RL: RCT (Reactant)

(reactions of, with **collagen** proteins, NMR of)

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E38 THROUGH E64 ASSIGNED

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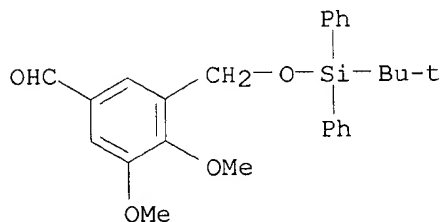
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- 1 7311-34-4/BI
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L15 ANSWER 1 OF 27 REGISTRY COPYRIGHT 2002 ACS
 RN **334016-42-1** REGISTRY
 CN Benzaldehyde, 3-[[[(1,1-dimethylethyl)diphenylsilyl]oxy]methyl]-4,5-
 dimethoxy- (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C26 H30 O4 Si
 SR CA
 LC STN Files: CA, CAPLUS



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 134:295620

L15 ANSWER 2 OF 27 REGISTRY COPYRIGHT 2002 ACS

RN 148696-72-4 REGISTRY

CN Somatotropin (swine), compd. with 4-hydroxy-3-methoxybenzaldehyde (9CI)
(CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Benzaldehyde, 4-hydroxy-3-methoxy-, compd. with somatotropin (swine) (9CI)

CN Benzaldehyde, 4-hydroxy-3-methoxy-, compd. with somatotropin (pig)

CN Somatotropin (pig), compd. with 4-hydroxy-3-methoxybenzaldehyde

MF C8 H8 O3 . x Unspecified

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

CM 1

CRN 126467-48-9

CMF Unspecified

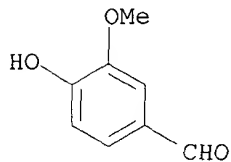
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CM 2

CRN 121-33-5

CMF C8 H8 O3



1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 119:56147

L15 ANSWER 3 OF 27 REGISTRY COPYRIGHT 2002 ACS

RN 148696-71-3 REGISTRY

CN Somatotropin (swine), compd. with 2-hydroxy-3-methoxybenzaldehyde (9CI)
(CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Benzaldehyde, 2-hydroxy-3-methoxy-, compd. with somatotropin (pig)

CN Benzaldehyde, 2-hydroxy-3-methoxy-, compd. with somatotropin (swine) (9CI)

CN Somatotropin (pig), compd. with 2-hydroxy-3-methoxybenzaldehyde

MF C8 H8 O3 . x Unspecified

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

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CRN 126467-48-9

CMF Unspecified

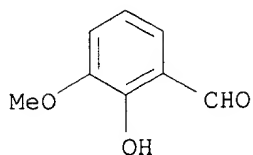
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CM 2

CRN 148-53-8

CMF C8 H8 O3



1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

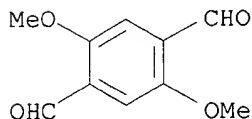
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L15 ANSWER 4 OF 27 REGISTRY COPYRIGHT 2002 ACS
RN **135789-41-2** REGISTRY
CN 1,4-Benzenedicarboxaldehyde, 2,5-dimethoxy-, polymer with
1,4-benzenediamine (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 1,4-Benzenediamine, polymer with 2,5-dimethoxy-1,4-benzenedicarboxaldehyde
(9CI)
OTHER NAMES:
CN 2,5-Dimethoxyterephthalaldehyde-1,4-phenylenediamine copolymer
MF (C10 H10 O4 . C6 H8 N2)x
CI PMS, COM
PCT Polyazomethine, Polyazomethine formed
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

RELATED POLYMERS AVAILABLE WITH POLYLINK

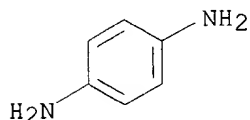
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CRN 7310-97-6
CMF C10 H10 O4



CM 2

CRN 106-50-3
CMF C6 H8 N2



12 REFERENCES IN FILE CA (1967 TO DATE)
2 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
12 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 133:321578
 REFERENCE 2: 133:287090
 REFERENCE 3: 132:222139
 REFERENCE 4: 131:299966
 REFERENCE 5: 131:200329
 REFERENCE 6: 130:325588
 REFERENCE 7: 126:279275
 REFERENCE 8: 122:82220
 REFERENCE 9: 121:69064
 REFERENCE 10: 120:108296

L15 ANSWER 5 OF 27 REGISTRY COPYRIGHT 2002 ACS

RN **106852-80-6** REGISTRY

CN Benzaldehyde, 4-[[(1,1-dimethylethyl)dimethylsilyl]oxy]-3,5-dimethoxy-
 (9CI) (CA INDEX NAME)

OTHER NAMES:

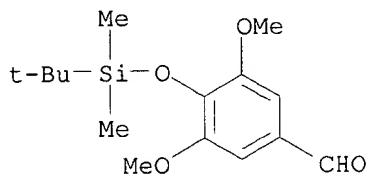
CN 4-tert-Butyldimethylsilyloxy-3,5-dimethoxybenzaldehyde

FS 3D CONCORD

MF C15 H24 O4 Si

SR CA

LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, TOXCENTER, USPATFULL
 (*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

12 REFERENCES IN FILE CA (1967 TO DATE)

12 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 136:355345
 REFERENCE 2: 132:260679
 REFERENCE 3: 131:13121
 REFERENCE 4: 129:122487
 REFERENCE 5: 123:198518
 REFERENCE 6: 122:106200
 REFERENCE 7: 121:230460
 REFERENCE 8: 117:111194

REFERENCE 9: 116:235461

REFERENCE 10: 115:28876

L15 ANSWER 6 OF 27 REGISTRY COPYRIGHT 2002 ACS

RN **104065-31-8** REGISTRY

CN Benzaldehyde, 3-[[5-(3,4-dimethoxyphenyl)-1H-tetrazol-1-yl]methyl]-4-hydroxy-5-methoxy-, mixt. with 3-[[5-(3,4-dimethoxyphenyl)-2H-tetrazol-2-yl]methyl]-4-hydroxy-5-methoxybenzaldehyde (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Benzaldehyde, 3-[[5-(3,4-dimethoxyphenyl)-2H-tetrazol-2-yl]methyl]-4-hydroxy-5-methoxy-, mixt. contg. (9CI)

MF C18 H18 N4 O5 . C18 H18 N4 O5

CI MXS

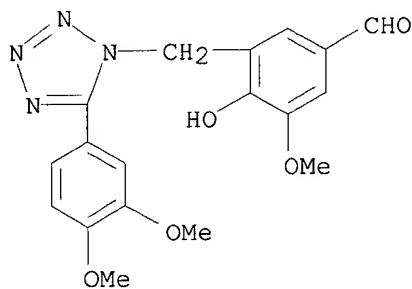
SR CA

LC STN Files: CA, CAPLUS, TOXCENTER

CM 1

CRN 104065-30-7

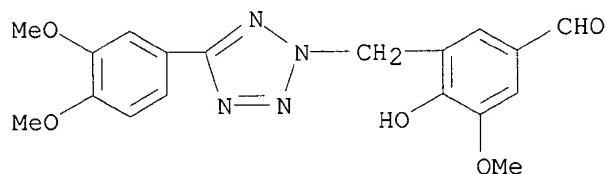
CMF C18 H18 N4 O5



CM 2

CRN 92595-41-0

CMF C18 H18 N4 O5



1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 105:111139

L15 ANSWER 7 OF 27 REGISTRY COPYRIGHT 2002 ACS

RN **104065-29-4** REGISTRY

CN Benzaldehyde, 4-hydroxy-3-methoxy-5-[(5-phenyl-1H-tetrazol-1-yl)methyl]-, mixt. with 4-hydroxy-3-methoxy-5-[(5-phenyl-2H-tetrazol-2-yl)methyl]benzaldehyde (9CI) (CA INDEX NAME)

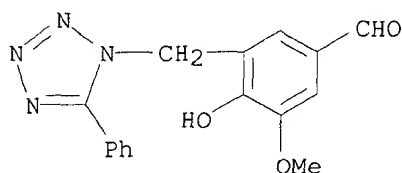
OTHER CA INDEX NAMES:

CN Benzaldehyde, 4-hydroxy-3-methoxy-5-[(5-phenyl-2H-tetrazol-2-yl)methyl]-, mixt. contg. (9CI)

MF C16 H14 N4 O3 . C16 H14 N4 O3
 CI MXS
 SR CA
 LC STN Files: CA, CAPLUS, RTECS*, TOXCENTER
 (*File contains numerically searchable property data)

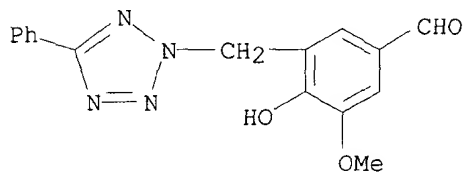
CM 1

CRN 104065-28-3
 CMF C16 H14 N4 O3



CM 2

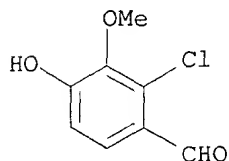
CRN 92595-37-4
 CMF C16 H14 N4 O3



1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 105:111139

L15 ANSWER 8 OF 27 REGISTRY COPYRIGHT 2002 ACS
 RN 82668-20-0 REGISTRY
 CN Benzaldehyde, 2-chloro-4-hydroxy-3-methoxy- (9CI) (CA INDEX NAME)
 OTHER NAMES:
 CN 2-Chloro-3-methoxy-4-hydroxybenzaldehyde
 CN 2-Chlorovanillin
 FS 3D CONCORD
 MF C8 H7 Cl O3
 LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, PIRA, TOXCENTER, USPATFULL
 (*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

15 REFERENCES IN FILE CA (1967 TO DATE)
15 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 128:39584
REFERENCE 2: 126:131298
REFERENCE 3: 124:333120
REFERENCE 4: 124:117084
REFERENCE 5: 123:59209
REFERENCE 6: 122:84027
REFERENCE 7: 122:31501
REFERENCE 8: 121:212175
REFERENCE 9: 119:256162
REFERENCE 10: 119:233521

L15 ANSWER 9 OF 27 REGISTRY COPYRIGHT 2002 ACS

RN **71295-21-1** REGISTRY

CN Benzaldehyde, 5-bromo-2,3-dimethoxy- (9CI) (CA INDEX NAME)

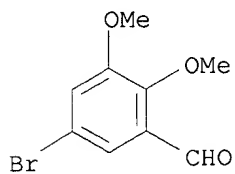
OTHER NAMES:

CN 2,3-Dimethoxy-5-bromobenzaldehyde

FS 3D CONCORD

MF C9 H9 Br O3

LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX,
TOXCENTER
(*File contains numerically searchable property data)



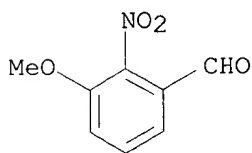
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

19 REFERENCES IN FILE CA (1967 TO DATE)
19 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 134:295620
REFERENCE 2: 133:2077
REFERENCE 3: 129:149216
REFERENCE 4: 127:188165
REFERENCE 5: 126:89204
REFERENCE 6: 123:55767
REFERENCE 7: 122:9778

REFERENCE 8: 121:74036
 REFERENCE 9: 120:217198
 REFERENCE 10: 115:135854

L15 ANSWER 10 OF 27 REGISTRY COPYRIGHT 2002 ACS
 RN 53055-05-3 REGISTRY
 CN Benzaldehyde, 3-methoxy-2-nitro- (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN m-Anisaldehyde, 2-nitro- (6CI)
 OTHER NAMES:
 CN 2-Nitro-3-methoxybenzaldehyde
 CN 3-Methoxy-2-nitrobenzaldehyde
 FS 3D CONCORD
 MF C8 H7 N O4
 LC STN Files: BEILSTEIN*, BIOSIS, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS,
 CHEMINFORMRX, CHEMLIST, CSCHEM, HODOC*, IFICDB, IFIPAT, IFIUDB,
 SPECINFO, TOXCENTER, USPATFULL
 (*File contains numerically searchable property data)
 Other Sources: EINECS**
 (**Enter CHEMLIST File for up-to-date regulatory information)



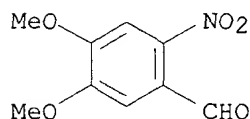
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

55 REFERENCES IN FILE CA (1967 TO DATE)
 55 REFERENCES IN FILE CAPLUS (1967 TO DATE)
 1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 137:87840
 REFERENCE 2: 136:309755
 REFERENCE 3: 136:294858
 REFERENCE 4: 136:216720
 REFERENCE 5: 136:167250
 REFERENCE 6: 135:303856
 REFERENCE 7: 135:272879
 REFERENCE 8: 135:210601
 REFERENCE 9: 135:166827
 REFERENCE 10: 135:122416

L15 ANSWER 11 OF 27 REGISTRY COPYRIGHT 2002 ACS
 RN 20357-25-9 REGISTRY
 CN Benzaldehyde, 4,5-dimethoxy-2-nitro- (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:

CN Veratraldehyde, 6-nitro- (7CI, 8CI)
 OTHER NAMES:
 CN 2-Nitro-4,5-dimethoxybenzaldehyde
 CN 3,4-Dimethoxy-6-nitrobenzaldehyde
 CN 4,5-Dimethoxy-2-nitrobenzaldehyde
 CN 4-O-Methyl-6-nitrovanillin
 CN 6-Nitroveratraldehyde
 FS 3D CONCORD
 MF C9 H9 N O5
 LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS,
 CHEMINFORMRX, CHEMLIST, CSChem, HODOC*, IFICDB, IFIPAT, IFIUDb,
 MSDS-OHS, SPECINFO, TOXCENTER, USPATFULL
 (*File contains numerically searchable property data)
 Other Sources: EINECS**
 (**Enter CHEMLIST File for up-to-date regulatory information)



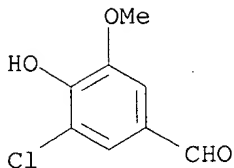
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

173 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 173 REFERENCES IN FILE CAPLUS (1967 TO DATE)
 1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 137:87840
 REFERENCE 2: 136:263410
 REFERENCE 3: 136:37618
 REFERENCE 4: 135:304144
 REFERENCE 5: 135:303672
 REFERENCE 6: 135:137157
 REFERENCE 7: 135:107300
 REFERENCE 8: 135:107264
 REFERENCE 9: 135:92639
 REFERENCE 10: 134:266308

L15 ANSWER 12 OF 27 REGISTRY COPYRIGHT 2002 ACS
 RN 19463-48-0 REGISTRY
 CN Benzaldehyde, 3-chloro-4-hydroxy-5-methoxy- (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Vanillin, 5-chloro- (6CI, 7CI, 8CI)
 OTHER NAMES:
 CN 3-Chloro-4-hydroxy-5-methoxybenzaldehyde
 CN 5-Chlorovanillin
 CN 5-Monochlorovanillin
 FS 3D CONCORD
 MF C8 H7 Cl O3
 LC STN Files: AGRICOLA, BEILSTEIN*, BIOBUSINESS, BIOSIS, CA, CAOLD, CAPLUS,

CASREACT, CHEMCATS, CHEMLIST, CSCHEM, DETHERM*, HODOC*, IFICDB, IFIPAT,
 IFIUIDB, PIRA, SPECINFO, TOXCENTER, USPATFULL
 (*File contains numerically searchable property data)
 Other Sources: EINECS**
 (**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

72 REFERENCES IN FILE CA (1967 TO DATE)
 72 REFERENCES IN FILE CAPLUS (1967 TO DATE)
 3 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 132:246357
 REFERENCE 2: 132:171816
 REFERENCE 3: 132:83155
 REFERENCE 4: 130:110061
 REFERENCE 5: 130:12153
 REFERENCE 6: 128:296015
 REFERENCE 7: 128:150419
 REFERENCE 8: 127:331393
 REFERENCE 9: 126:131298
 REFERENCE 10: 126:69933

L15 ANSWER 13 OF 27 REGISTRY COPYRIGHT 2002 ACS

RN 18268-76-3 REGISTRY

CN Benzaldehyde, 2-chloro-4-hydroxy-5-methoxy- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Vanillin, 6-chloro- (8CI)

OTHER NAMES:

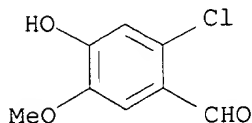
CN 6-Chlorovanillin

CN 6-Monochlorovanillin

FS 3D CONCORD

MF C8 H7 Cl O3

LC STN Files: ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS, CA, CAPLUS,
 CASREACT, CHEMLIST, DETHERM*, PIRA, TOXCENTER, ULIDAT, USPATFULL
 (*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

74 REFERENCES IN FILE CA (1967 TO DATE)
75 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 136:73803
REFERENCE 2: 135:199960
REFERENCE 3: 135:94110
REFERENCE 4: 133:63103
REFERENCE 5: 132:335984
REFERENCE 6: 132:167838
REFERENCE 7: 132:83155
REFERENCE 8: 132:39916
REFERENCE 9: 131:327168
REFERENCE 10: 129:132360

L15 ANSWER 14 OF 27 REGISTRY COPYRIGHT 2002 ACS

RN 17028-61-4 REGISTRY

CN Benzaldehyde, 2-hydroxy-3-methoxy-5-nitro- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN m-Anisaldehyde, 2-hydroxy-5-nitro- (8CI)

CN o-Vanillin, 5-nitro- (6CI)

OTHER NAMES:

CN 2-Hydroxy-3-methoxy-5-nitrobenzaldehyde

CN 3-Methoxy-5-nitrosalicylaldehyde

CN 5-Nitro-o-vanillin

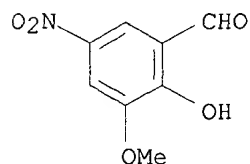
FS 3D CONCORD

MF C8 H7 N O5

CI COM

LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMLIST,
CSCHEM, SPECINFO, TOXCENTER, USPATFULL

(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

98 REFERENCES IN FILE CA (1967 TO DATE)
98 REFERENCES IN FILE CAPLUS (1967 TO DATE)
1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 136:69829
REFERENCE 2: 136:20032

REFERENCE 3: 135:137351
 REFERENCE 4: 135:137235
 REFERENCE 5: 135:76829
 REFERENCE 6: 134:326221
 REFERENCE 7: 133:79004
 REFERENCE 8: 132:243869
 REFERENCE 9: 132:51138
 REFERENCE 10: 131:331415

L15 ANSWER 15 OF 27 REGISTRY COPYRIGHT 2002 ACS

RN 7311-34-4 REGISTRY

CN Benzaldehyde, 3,5-dimethoxy- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)

OTHER NAMES:

CN 3,5-Dimethoxybenzaldehyde

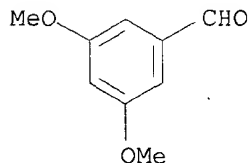
FS 3D CONCORD

MF C9 H10 O3

LC STN Files: AGRICOLA, BEILSTEIN*, BIOBUSINESS, BIOSIS, CA, CAOLD, CAPLUS,
 CASREACT, CHEMCATS, CHEMINFORMRX, CHEMLIST, CSCHEM, HODOC*, IFICDB,
 IFIPAT, IFIUDB, MSDS-OHS, SPECINFO, SYNTHLINE, TOXCENTER, USPATFULL
 (*File contains numerically searchable property data)

Other Sources: EINECS**

(**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

429 REFERENCES IN FILE CA (1967 TO DATE)

431 REFERENCES IN FILE CAPLUS (1967 TO DATE)

10 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 137:87838
 REFERENCE 2: 137:46881
 REFERENCE 3: 137:19546
 REFERENCE 4: 136:385696
 REFERENCE 5: 136:369539
 REFERENCE 6: 136:309755
 REFERENCE 7: 136:294748
 REFERENCE 8: 136:263165

REFERENCE 9: 136:247571

REFERENCE 10: 136:247388

L15 ANSWER 16 OF 27 REGISTRY COPYRIGHT 2002 ACS

RN 6635-20-7 REGISTRY

CN Benzaldehyde, 4-hydroxy-3-methoxy-5-nitro- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Vanillin, 5-nitro- (6CI, 7CI, 8CI)

OTHER NAMES:

CN 3-Methoxy-4-hydroxy-5-nitrobenzaldehyde

CN 3-Nitro-4-hydroxy-5-methoxybenzaldehyde

CN 4-Hydroxy-3-methoxy-5-nitrobenzaldehyde

CN 4-Hydroxy-5-methoxy-3-nitrobenzaldehyde

CN 5-Nitro-4-hydroxy-3-methoxybenzaldehyde

CN 5-Nitrovanillin

FS 3D CONCORD

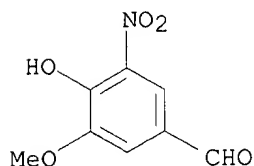
MF C8 H7 N O5

LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS,
CHEMINFORMRX, CHEMLIST, CSCHEM, HODOC*, PIRA, SPECINFO, TOXCENTER,
USPATFULL

(*File contains numerically searchable property data)

Other Sources: EINECS**

(**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

97 REFERENCES IN FILE CA (1967 TO DATE)

2 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

97 REFERENCES IN FILE CAPLUS (1967 TO DATE)

6 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 137:78726

REFERENCE 2: 136:325295

REFERENCE 3: 136:183764

REFERENCE 4: 136:69829

REFERENCE 5: 136:63117

REFERENCE 6: 135:303782

REFERENCE 7: 135:303672

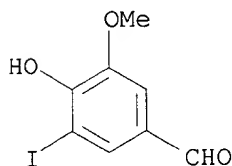
REFERENCE 8: 134:42002

REFERENCE 9: 134:29596

REFERENCE 10: 133:350025

L15 ANSWER 17 OF 27 REGISTRY COPYRIGHT 2002 ACS

RN 5438-36-8 REGISTRY
 CN Benzaldehyde, 4-hydroxy-3-iodo-5-methoxy- (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Vanillin, 5-iodo- (7CI)
 OTHER NAMES:
 CN 3-Iodo-5-methoxy-4-hydroxybenzaldehyde
 CN 4-Hydroxy-3-iodo-5-methoxybenzaldehyde
 CN 4-Hydroxy-5-iodo-3-methoxybenzaldehyde
 CN 5-Iodo-3-methoxy-4-hydroxybenzaldehyde
 CN 5-Iodovanillin
 FS 3D CONCORD
 MF C8 H7 I O3
 LC STN Files: AGRICOLA, BEILSTEIN*, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS,
 CHEMINFORMRX, CHEMLIST, CSCHEM, HODOC*, IFICDB, IFIPAT, IFIADB,
 SPECINFO, SYNTHLINE, TOXCENTER, USPATFULL
 (*File contains numerically searchable property data)
 Other Sources: EINECS**, NDSL**, TSCA**
 (**Enter CHEMLIST File for up-to-date regulatory information)



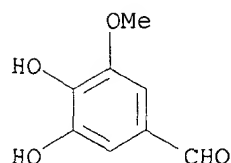
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

100 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 100 REFERENCES IN FILE CAPLUS (1967 TO DATE)
 1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 137:93682
 REFERENCE 2: 136:327192
 REFERENCE 3: 136:102329
 REFERENCE 4: 136:53764
 REFERENCE 5: 135:344501
 REFERENCE 6: 135:272910
 REFERENCE 7: 135:272895
 REFERENCE 8: 135:19663
 REFERENCE 9: 135:5558
 REFERENCE 10: 134:127813

L15 ANSWER 18 OF 27 REGISTRY COPYRIGHT 2002 ACS
 RN 3934-87-0 REGISTRY
 CN Benzaldehyde, 3,4-dihydroxy-5-methoxy- (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Protocatechualdehyde, 5-methoxy- (7CI, 8CI)
 OTHER NAMES:
 CN 3,4-Dihydroxy-5-methoxybenzaldehyde

CN 4,5-Dihydroxy-3-methoxybenzaldehyde
 CN 5-Hydroxyvanillin
 FS 3D CONCORD
 MF C8 H8 O4
 LC STN Files: BEILSTEIN*, BIOSIS, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS,
 CHEMLIST, CSCHEM, IFICDB, IFIPAT, IFIUDB, RTECS*, SPECINFO, TOXCENTER,
 USPATFULL
 (*File contains numerically searchable property data)
 Other Sources: EINECS**
 (**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

58 REFERENCES IN FILE CA (1967 TO DATE)
 58 REFERENCES IN FILE CAPLUS (1967 TO DATE)
 7 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 136:212615
 REFERENCE 2: 136:74276
 REFERENCE 3: 136:58508
 REFERENCE 4: 135:357851
 REFERENCE 5: 134:315873
 REFERENCE 6: 134:141770
 REFERENCE 7: 133:266641
 REFERENCE 8: 132:321792
 REFERENCE 9: 132:37133
 REFERENCE 10: 129:27796

L15 ANSWER 19 OF 27 REGISTRY COPYRIGHT 2002 ACS

RN 2973-76-4 REGISTRY

CN Benzaldehyde, 3-bromo-4-hydroxy-5-methoxy- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Vanillin, 5-bromo- (6CI, 7CI, 8CI)

OTHER NAMES:

CN 3-Bromo-4-hydroxy-5-methoxybenzaldehyde

CN 5-Bromo-3-methoxy-4-hydroxybenzaldehyde

CN 5-Bromo-4-hydroxy-3-anisaldehyde

CN 5-Bromo-4-hydroxy-3-methoxybenzaldehyde

CN 5-Bromovanillin

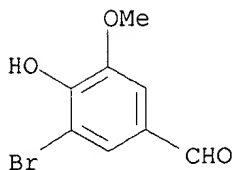
CN 6-Bromo-4-formyl-2-methoxyphenol

FS 3D CONCORD

MF C8 H7 Br O3

LC STN Files: AGRICOLA, BEILSTEIN*, BIOBUSINESS, BIOSIS, CA, CAOLD, CAPLUS,
 CASREACT, CHEMCATS, CHEMINFORMRX, CHEMLIST, CSCHEM, HODOC*, IFICDB,

IFIPAT, IFIUDB, PIRA, SPECINFO, TOXCENTER, USPATFULL
 (*File contains numerically searchable property data)
 Other Sources: DSL**, EINECS**, TSCA**
 (**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

184 REFERENCES IN FILE CA (1967 TO DATE)
 184 REFERENCES IN FILE CAPLUS (1967 TO DATE)
 7 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 137:104945
 REFERENCE 2: 137:42773
 REFERENCE 3: 136:243022
 REFERENCE 4: 136:134645
 REFERENCE 5: 136:49485
 REFERENCE 6: 135:318303
 REFERENCE 7: 135:314602
 REFERENCE 8: 135:272910
 REFERENCE 9: 135:137701
 REFERENCE 10: 135:137383

L15 ANSWER 20 OF 27 REGISTRY COPYRIGHT 2002 ACS

RN **2426-87-1** REGISTRY

CN Benzaldehyde, 3-methoxy-4-(phenylmethoxy)- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Benzaldehyde, 4-(benzyloxy)-3-methoxy- (6CI, 7CI, 8CI)

OTHER NAMES:

CN 3-Methoxy-4-(benzyloxy)benzaldehyde

CN 4-(Benzyloxy)-3-methoxybenzaldehyde

CN 4-O-Benzylvanillin

CN Benzylvanillin

CN O-Benzylvanillin

CN Vanillin benzyl ether

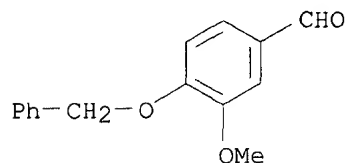
FS 3D CONCORD

MF C15 H14 O3

LC STN Files: AGRICOLA, BEILSTEIN*, BIOSIS, CA, CAOLD, CAPLUS, CASREACT,
 CHEMCATS, CHEMINFORMRX, CHEMLIST, CSCHEM, HODOC*, IFICDB, IFIPAT,
 IFIUDB, SPECINFO, SYNTHLINE, TOXCENTER, USPATFULL
 (*File contains numerically searchable property data)

Other Sources: EINECS**

(**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

274 REFERENCES IN FILE CA (1967 TO DATE)
 275 REFERENCES IN FILE CAPLUS (1967 TO DATE)
 5 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 137:78723
 REFERENCE 2: 137:63372
 REFERENCE 3: 137:46778
 REFERENCE 4: 137:20309
 REFERENCE 5: 136:216740
 REFERENCE 6: 136:200176
 REFERENCE 7: 136:85826
 REFERENCE 8: 136:69651
 REFERENCE 9: 135:344364
 REFERENCE 10: 135:288633

L15 ANSWER 21 OF 27 REGISTRY COPYRIGHT 2002 ACS

RN 591-31-1 REGISTRY

CN Benzaldehyde, 3-methoxy- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN m-Anisaldehyde (8CI)

OTHER NAMES:

CN 3-Methoxybenzaldehyde

CN m-Methoxybenzaldehyde

FS 3D CONCORD

MF C8 H8 O2

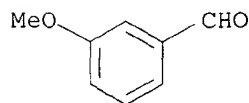
CI COM

LC STN Files: AGRICOLA, ANABSTR, BEILSTEIN*, BIOSIS, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX, CHEMLIST, CSCHEM, DETHERM*, GMELIN*, HODOC*, HSDB*, IFICDB, IFIPAT, IFIUDB, NAPRALERT, PROMT, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, USPATFULL

(*File contains numerically searchable property data)

Other Sources: DSL**, EINECS**, TSCA**

(*Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1746 REFERENCES IN FILE CA (1967 TO DATE)
 4 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 1749 REFERENCES IN FILE CAPLUS (1967 TO DATE)
 1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 137:109122
 REFERENCE 2: 137:109096
 REFERENCE 3: 137:109087
 REFERENCE 4: 137:87840
 REFERENCE 5: 137:79026
 REFERENCE 6: 137:78825
 REFERENCE 7: 137:78783
 REFERENCE 8: 137:78731
 REFERENCE 9: 137:78646
 REFERENCE 10: 137:78532

L15 ANSWER 22 OF 27 REGISTRY COPYRIGHT 2002 ACS

RN 494-08-6 REGISTRY

CN Benzaldehyde, 4-(.beta.-D-glucopyranosyloxy)-3-methoxy- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Avenein (6CI, 7CI, 8CI)

OTHER NAMES:

CN Glucovanillin

CN Vanillin .beta.-D-glucopyranoside

CN Vanillin glucoside

CN Vanilloside

FS STEREOSEARCH

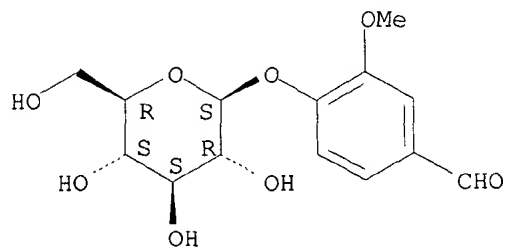
DR 6049-95-2

MF C14 H18 O8

CI COM

LC STN Files: AGRICOLA, BEILSTEIN*, BIOBUSINESS, BIOSIS, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS, CSCHEM, IPA, MRCK*, PROMT, TOXCENTER, USPATFULL
 (*File contains numerically searchable property data)

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

38 REFERENCES IN FILE CA (1967 TO DATE)

38 REFERENCES IN FILE CAPLUS (1967 TO DATE)

3 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 137:29708
 REFERENCE 2: 136:299446
 REFERENCE 3: 136:68980
 REFERENCE 4: 135:343352
 REFERENCE 5: 134:237711
 REFERENCE 6: 133:321157
 REFERENCE 7: 133:345
 REFERENCE 8: 132:298448
 REFERENCE 9: 129:330591
 REFERENCE 10: 128:235007

L15 ANSWER 23 OF 27 REGISTRY COPYRIGHT 2002 ACS

RN 148-53-8 REGISTRY

CN Benzaldehyde, 2-hydroxy-3-methoxy- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN m-Anisaldehyde, 2-hydroxy- (8CI)

CN o-Vanillin (6CI)

OTHER NAMES:

CN 2-Hydroxy-3-methoxybenzaldehyde

CN 2-Hydroxy-m-anisaldehyde

CN 2-Vanillin

CN 3-Methoxy-2-hydroxybenzaldehyde

CN 3-Methoxysalicylaldehyde

CN 6-Formyl-2-methoxyphenol

CN 6-Formylguaiacol

CN NC 005

FS 3D CONCORD

MF C8 H8 O3

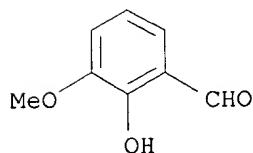
CI COM

LC STN Files: AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS, CA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX, CHEMLIST, CSCHM, DETHERM*, GMELIN*, HODOC*, IFICDB, IFIPAT, IFIUDB, MEDLINE, MSDS-OHS, PIRA, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, USPAT2, USPATFULL

(*File contains numerically searchable property data)

Other Sources: DSL**, EINECS**, TSCA**

(**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1138 REFERENCES IN FILE CA (1967 TO DATE)
 14 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 1139 REFERENCES IN FILE CAPLUS (1967 TO DATE)
 33 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 137:118510
 REFERENCE 2: 137:104945
 REFERENCE 3: 137:102959
 REFERENCE 4: 137:88473
 REFERENCE 5: 137:78835
 REFERENCE 6: 137:74803
 REFERENCE 7: 137:47151
 REFERENCE 8: 137:47117
 REFERENCE 9: 137:42773
 REFERENCE 10: 137:40855

L15 ANSWER 24 OF 27 REGISTRY COPYRIGHT 2002 ACS

RN 134-96-3 REGISTRY

CN Benzaldehyde, 4-hydroxy-3,5-dimethoxy- (8CI, 9CI) (CA INDEX NAME)

OTHER NAMES:

CN 2,6-Dimethoxy-4-formylphenol

CN 3,5-Dimethoxy-4-hydroxybenzaldehyde

CN 4-Formyl-2,6-dimethoxyphenol

CN 4-Hydroxy-3,5-dimethoxybenzaldehyde

CN Cedar aldehyde

CN Gallaldehyde 3,5-dimethyl ether

CN Syringaldehyde

CN Syringic aldehyde

FS 3D CONCORD

MF C9 H10 O4

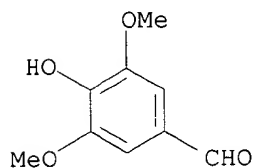
CI COM

LC STN Files: AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS,
 BIOTECHNO, CA, CAOLD, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMINFORMRX,
 CHEMLIST, CIN, CSCHEM, DDFU, DRUGU, EMBASE, HODOC*, IFICDB, IFIPAT,
 IFIUDB, MEDLINE, MRCK*, NAPRALERT, NIOSHTIC, PIRA, PROMT, RTECS*,
 SPECINFO, SYNTHLIN, TOXCENTER, TULSA, USPATFULL

(*File contains numerically searchable property data)

Other Sources: DSL**, EINECS**, TSCA**

(**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1522 REFERENCES IN FILE CA (1967 TO DATE)

16 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

1525 REFERENCES IN FILE CAPLUS (1967 TO DATE)
28 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 137:113694
REFERENCE 2: 137:108518
REFERENCE 3: 137:104945
REFERENCE 4: 137:98305
REFERENCE 5: 137:95374
REFERENCE 6: 137:93012
REFERENCE 7: 137:90941
REFERENCE 8: 137:90076
REFERENCE 9: 137:83362
REFERENCE 10: 137:64726

L15 ANSWER 25 OF 27 REGISTRY COPYRIGHT 2002 ACS

RN 121-33-5 REGISTRY

CN Benzaldehyde, 4-hydroxy-3-methoxy- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Vanillin (8CI)

OTHER NAMES:

CN 2-Methoxy-4-formylphenol

CN 3-Methoxy-4-hydroxybenzaldehyde

CN 4-Formyl-2-methoxyphenol

CN 4-Hydroxy-3-methoxybenzaldehyde

CN 4-Hydroxy-5-methoxybenzaldehyde

CN 4-Hydroxy-m-anisaldehyde

CN H 0264

CN Lioxin

CN m-Methoxy-p-hydroxybenzaldehyde

CN p-Hydroxy-m-methoxybenzaldehyde

CN p-Vanillin

CN Rhovanil

CN Vanillaldehyde

CN Vanillic aldehyde

FS 3D CONCORD

DR 8014-42-4, 52447-63-9

MF C8 H8 O3

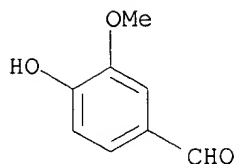
CI COM

LC STN Files: AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS,
BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN,
CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, CSNB, DDFU, DETHERM*,
DIPPR*, DRUGU, EMBASE, GMELIN*, HODOC*, HSDB*, IFICDB, IFIPAT, IFIUDB,
IPA, MEDLINE, MRCK*, MSDS-OHS, NAPRALERT, NIOSHTIC, PDLCOM*, PIRA,
PROMT, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, TULSA, ULIDAT, USAN,
USPAT2, USPATFULL

(*File contains numerically searchable property data)

Other Sources: DSL**, EINECS**, TSCA**

(**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

6998 REFERENCES IN FILE CA (1967 TO DATE)
 138 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 7008 REFERENCES IN FILE CAPLUS (1967 TO DATE)
 13 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 137:114553
 REFERENCE 2: 137:114518
 REFERENCE 3: 137:114199
 REFERENCE 4: 137:113694
 REFERENCE 5: 137:112698
 REFERENCE 6: 137:110692
 REFERENCE 7: 137:109935
 REFERENCE 8: 137:109514
 REFERENCE 9: 137:109106
 REFERENCE 10: 137:109087

L15 ANSWER 26 OF 27 REGISTRY COPYRIGHT 2002 ACS

RN 120-14-9 REGISTRY

CN Benzaldehyde, 3,4-dimethoxy- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Veratraldehyde (7CI, 8CI)

OTHER NAMES:

CN 3,4-Dimethoxybenzaldehyde

CN 3,4-Dimethoxybenzenecarbonal

CN 4-O-Methylvanillin

CN Methylvanillin

CN Protocatechualdehyde dimethyl ether

CN Protocatechuic aldehyde dimethyl ether

CN Vanillin methyl ether

CN Veratral

CN Veratric aldehyde

CN Veratrum aldehyde

CN Veratryl aldehyde

FS 3D CONCORD

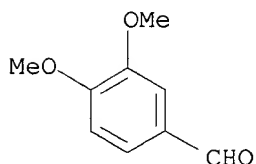
MF C9 H10 O3

CI COM

LC STN Files: AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX, CHEMLIST, CSCHEM, DDFU, DRUGU, GMELIN*, HODOC*, IFICDB, IFIPAT, IFIUDB, MEDLINE, MRCK*, MSDS-OHS, NAPRALERT, NIOSHTIC, PIRA, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, ULIDAT, USPAT2, USPATFULL

(*File contains numerically searchable property data)

Other Sources: DSL**, EINECS**, TSCA**
 (**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3036 REFERENCES IN FILE CA (1967 TO DATE)
 12 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 3041 REFERENCES IN FILE CAPLUS (1967 TO DATE)
 1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 137:109154
 REFERENCE 2: 137:109139
 REFERENCE 3: 137:109106
 REFERENCE 4: 137:109096
 REFERENCE 5: 137:93770
 REFERENCE 6: 137:93605
 REFERENCE 7: 137:88408
 REFERENCE 8: 137:79101
 REFERENCE 9: 137:78532
 REFERENCE 10: 137:47168

L15 ANSWER 27 OF 27 REGISTRY COPYRIGHT 2002 ACS

RN 93-02-7 REGISTRY

CN Benzaldehyde, 2,5-dimethoxy- (7CI, 8CI, 9CI) (CA INDEX NAME)

OTHER NAMES:

CN 2,5-Dimethoxybenzaldehyde

FS 3D CONCORD

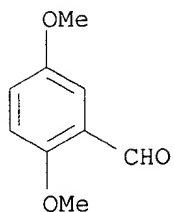
MF C9 H10 O3

LC STN Files: ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS, CA, CAOLD, CAPLUS,
 CASREACT, CHEMCATS, CHEMINFORMRX, CHEMLIST, CSCHEM, HODOC*, IFICDB,
 IFIPAT, IFIUDB, MSDS-OHS, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER,
 ULIDAT, USPAT2, USPATFULL

(*File contains numerically searchable property data)

Other Sources: DSL**, EINECS**, TSCA**

(**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

544 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 545 REFERENCES IN FILE CAPLUS (1967 TO DATE)
 9 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE	1:	137:109096
REFERENCE	2:	137:20309
REFERENCE	3:	137:20278
REFERENCE	4:	136:379474
REFERENCE	5:	136:340450
REFERENCE	6:	136:310048
REFERENCE	7:	136:309755
REFERENCE	8:	136:294790
REFERENCE	9:	136:294720
REFERENCE	10:	136:279185